## Clinical Medicine

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James M. Northington, M.D., Editor-in-Chief

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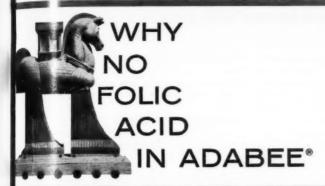
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#### The Care of the Dying

JAMES M. NORTHINGTON, M.D., Editor-in-Chief

This is an abridgement of an adlress given by Alfred Worcester, M.D., Professor of Hygiene at Harrard, to the Academy of Medicine of Cincinnati in 1932. It was pubished in The Journal of Medicine and Southern Medicine & Surgery in 1932, and in the latter journal again in 1935.

■

One of my medical school professors was Oliver Wendell Holmes. I have not forgotten his assistance that, while to assist at the coming-in is one of the physician's functions, another is a sasist at the going-out.

During the past half-century, as we all know, there has been vast improvement in diagnosis and therapy in medicine. But, a nstead of any progress in the art of caring for the dying, medical practice has deteriorated. Many loctors nowadays, when the leath of their patients becomes a mainent, seem to believe it is tuite proper to leave the dying a the care of nurses and sorrowing relatives.\* This shifting of

responsibility is unpardonable. And one of its bad results is that as less professional interest is taken in such service less and less is known about it. Every medical student ought to have clinical instruction for such service and afterwards he should be required to hand in several reports of his attendance at the deathbed of patients entrusted to his care. In his future practice he then might fairly be expected to know at least something of what ought and ought not to be done for the dving.

The history of the patient as well as his disease may help in differentiating the approach of death from similar states of collapse where restoration is possible. Thus the injury already suffered, whether by accident or disease, may preclude life's continuance. Old age is the only natural cause of death, and natural death is merely falling asleep. This crowning mercy is vouchsafed to few. Infants and young children die very easily;

their hold on life is but slender.

The signs of approaching death ought to be unmistakable. The facies Hippocratica is perhaps our earliest picture of a patient in articulo mortis: "the nose sharp and pinched, eyes sunk in orbits and hollow, ears pale, cold and shrunken with lobes inverted, face pallid, livid or black." Shakespeare's account of the death of Falstaff is still more vivid. The hostess says:

" 'A made a finer end and went away and it had been any christom child. 'A parted even just between twelve and one, even at the turning o' the tide: for after I saw him fumble with the sheets, and play with flowers, and smile upon his fingers' ends, I knew there was but one way; for his nose was as sharp as a pen and 'a babbled of green fields. 'How now, Sir John,' quoth I: 'what, man! be o' good cheer.' So 'a cried out, 'God, God, God!' three or four times. 'A bade me lay more clothes on his feet. I put my hand into the bed and felt them, and they were as cold as any stone."

The process of dying is a progressive failure of the vital functions. Sensation and power of motion as well as the reflexes are lost in the legs before in the arms. In the intestinal canal, be-

fore the patient can no long swallow, the anal sphincters n lax, peristalsis ceases, and the stomach distends. The folly, u der such conditions, of attemn ing to give nutriment or med cine by either mouth or rectu is evident; the folly of it become even more glaring when late there is at least equal change that the fluids given by the mouth will run down the tra chea. This is not an infrequen cause of the "death rattle" which is a needless addition to the dis tress of the family. If the rattl is due to hypersecretion of th bronchial mucosa it can some times be stopped by the hypode mic injection of a large dose atropine.

As long as the patient cape swallow, water either pure or mixed with sour wine should be offered with increasing frequency but in lessening amount in Toward the last, after even a few drops would cause choking, if along auze wicking one end of which is held in a cup of ice water, is put into the patient's mouth in often will be gratefully sucked Sucking is our first and last craw thing. The complaint just before the Death on the Cross was thirst." And then the spong is dipped in vinegar was the kindlest possible offering.

It must not be forgotten that the Biblical phrase of "the

long tongue cleaving to the roof of the mouth" is no empty figure of speech. Such misery, as well as every other discomfort from lack of saliva, can be prevented by applying glycerin to the tongue, or perhaps even better come by placing bits of ice, enmeshed late in a strip of gauze, well back than ice so placed melts, the moisture of therefrom evaporates without endangering choking.

quer endangering choking.

When on the other hand there whic e dis is too much fluid in the mouth, rattles from regurgitation, gauze f th wicking similarly placed often affords the needed relief. But in boole these cases it is imperative that the patient shall be turned upon his side to allow gravity drainage. This procedure should also cabe employed when stertorous re oreathing is caused, as it often is, ald by a falling back of the tongue. Quest Change of posture often relieves ount the dying patient's general disa fee comfort. Never should it be , if forgotten that the reason why whice patients in extremis, or unconer, i scious from whatever cause, so th i generally are found lying flat on cked their backs is simply because cray they are not able either to make efore known their need of help or to as "thift themselves from that positions" ion. They may still appreciate kind he comfort that a change affords. When the respiration becomes that abored it is of great help to lift "the he upper half of the body, provided always that care is taken to support the lower back and to let the shoulders fall backward in order to give all possible freedom for chest movements. It is also important so to pillow the head that the neck shall not flex on the body.

As the peripheral circulation fails there usually is a drenching sweat, and the body surface cools, whatever may be the temperature of the surrounding air. This sweating is most profuse on the upper parts of the body, and on the extensor rather than on the flexor surfaces as in health. Sponging off this sweat with cloths wrung out of diluted alcohol often comforts the patient. However cold the body surface becomes, the dving are almost never conscious of cold-on the contrary, they usually feel too hot. Once a nurse dying of pneumonia, whose body surface was cold, in answer to my question if I could do anything for her, said she wished I would take her to the top of a hill nearby where she might lie in a snowbank. Even when supposed to be unconscious the restlessness of the dving is often caused by this sensation of heat. As the surface cools, the inward temperature instead of lessening as in ordinary collapse, rises high. The tossings are often only their efforts to throw off the bedclothes. Lighter and less covering is

what is needed. Fresh air in abundance is of course essential. That it shall be kept moving is more important for the patient's comfort than the matter of its temperature. A slow-running electric fan is what serves best, the air fanned at right angles. I have never seen any comfort derived from the use of oxygen on such occasions.

The chamber should be well lighted as the patient enters the valley of the shadow. The dving. as long as they are able to do so, turn towards the light. Some complain of the growing darkness. A dying consumptive once begged me to carry her from her shaded chamber out into the sunshine. I shall never forget her gratitude as she died looking straight at the rising sun.

As sight and hearing fail, the dving see only what is near and hear only what is distinctly spoken almost in their ears. They are often disturbed by sounds no longer distinguishable. Whispering at this time is unpardonable. Many seem to enjoy soothing music. In the Feier Abend Haus of the deaconess hospitals in Germany, where the dying are more beautifully cared for than anywhere else in the world. hymns are played for them on the organ in the adjoining chapel.

However great the previous suffering, there is always an in-

terval of perfect peace and offe of ecstasy before death. Even cases of angina pectoris. when in previous attacks the patient have longed for release from li in the last attack there usual is far less suffering, and eve this disappears before loss consciousness. Indeed, this sation of pain is often a sign of impending death. All compa tent observers agree that then is no such thing as "death ath ny," except in the imagination The contortions of the dying body seem to be evidence if suffering, but it is seeming only Many who are quite ready even eager to leave this work dread the act of leaving. The fear is as needless as the fear of being buried alive. Neverthe less, so common is this fear eve among otherwise intelligent per ple that it is well for every phy sician to have at his tongue's en a full supply of fear-dispelling evidence.

Those who have been rescued from death by drowning even after hours of artificial respiration say that before losing consciousness they experienced m suffering whatever. Those whi are conscious to the very la invariably answer that they not suffer. William Hunter. the great anatomist, who retained his consciousness to his lat breath, just before he died whis pered. "If I had strength enough







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no who last do the to hold a pen, I would write how easy and pleasant a thing it is to die." In Edward Hammond Clarke's "Visions," posthumously edited by Oliver Wendell Holmes, the account is given of the death of one of his patients who had arranged to signal by finger movements, after he should become otherwise unable to answer. To the very last, after he appeared to have lost all consciousness, this patient signaled "No," in answer to Dr. Clarke's questions if he were suffering.

However painless the final stage, discomfort and suffering are only too possible in the earlier stages of dving. Much of this is avoidable. Some of it, as we have seen, is due to lack of proper treatment or to wrong treatment of the patient. In the latter case the harm is generally from failure to recognize that the treatment needed is radically different from what is appropriate when restoration is possible. How fatuous it is to apply artificial heat after the heat regulation of the body fails. All such disturbance of the dying patient is inexcusable. It may be easier in such a case, as it often is in other exigencies, for the physician, against his own judgment of what is best for the patient, to surrender to the prejudices or desires of relatives who do not understand and so cannot accept the facts. All of the physician's patience, tact and sympathy a then needed, and, above all, h firmness. If he is unremitting his attention to the patient his attention of the family; and, what is of far more worth, he will have the satisfation of knowing that he is doing as he would be done by.

There is the possible bladded distention to be looked out for This may require catheterization. More often there is dribbling and the consequent discomfort of a wet bed and foul odors. After patients are no longer able to make known their wants they sometimes recognize the opportunity afforded by properly placed bedpan; an even after their sphincters are relaxed they may still be also to appreciate proper protection

The discomfort and suffering of the dying almost always of be relieved by medical treat ment. The occasional service ableness of atropine has been mentioned. If morphine fails to give comfort, a hundred to on it is either because too small doses have been given or because it has not been successfully introduced into the enfeebling circulation. Large and frequent doses may be needed. As the end approaches, a full grain is not too much of a dose, and if then the needle cannot find a



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vein, it is always easy for a long needle to reach the heart. Morphine toward the last may not slow the hurried respiration, but it will often stop a strangling cough and the far more distressing regurgitation. Its main effect is its soothing influence.

Under proper direction, the nurses can give most of the service needed, but it is unfair to expect it of them unless in the execution of direct orders which very likely may have to be frequently changed. Even if no such active measures of relief are needed, that very fact is for the physician to decide. In such cases it is for him to protect the patient from the disturbance of officiousness. Even when only watchful waiting is needed, the physician must not underrate the help that his mere presence may afford in steadying and comforting both the dying patient and the family. "They also serve who only stand and wait."

Difficult as it may be to decide when dying begins, sometimes there is less difficulty in deciding just when death occurs. It is incumbent upon those of us who have made such mistakes to warn our younger brothers of the close resemblance between death and suspended animation. All these modern methods of resuscitation, which are obligatory where valuable lives might thus

be saved, are decidedly out place where resuscitation would only renew the patient's suffer ings. Such attempted defiance of Nature is even less justifiable than efforts for the prolongation of life when the inevitable at proach of death offers mercifil release. And yet in both of these ways too many of our profession seem to believe themselves in duty bound to do their utmost They ought to know better. Just as the dying ought to be allowed to depart in peace, so after their apparent departure their bodies should not be too immediately disturbed. Such disturbance d the dead robs the bereaved by standers of the sense of perfect peace that otherwise would be their consolation.

Thus far we have considered only the physical phenomena is dying. Such knowledge is essential, but right treatment depends till more upon the physician appreciation of his dying patient's personality. Such appreciation distinguishes the physician from the veterinary. And these suggestions regarding the proper physical treatment area small importance except as the furnish the doctor sufficient reason for taking care of his dying patients.

In the practice of our art often matters little what med cine is given, but matters must



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While the patient's health is restorable or even while his life can be prolonged by purely scientific treatment, the absence of any interest in his personality may not be noticeable. But when the body is nearing its end, especially when consciousness continues to the last, and when as often happens in such cases the real character of the patient shines forth more plainly than ever before, then it is that materialism reveals its utter help-lessness.

Agnosticism regarding a future existence, or even absolute disbelief of it, never can absolve the physician from devoting his attention to his dying patient's personality. Just before death there are occasionally very remarkable recoveries of consciousness; in such cases it sometimes happens that the patient is found to have heard what has been said at his bedside, while

to all appearances he was total unconscious. Usually in the p cess of dying there is a grad loss of consciousness, the on and progress of which is with difficulty distinguish from the patient's increase inability to communicate thoughts. Long after his wh pered words have become audible the patient may be a to signify assent or dissent slight movement of the head hand. Still later only the are able to reveal the dvi mother's love for her childre This final loss of all commun cation with the world may m cede death by many hours only by moments.

In my own practice, an a widow, who, in spite of card renal embarrassment had be able to be up and about, feels uneasy, asked a neighbor to state night with her. It was we for she died before morning When I asked the neighbor watcher if she had noticed a signs of impending death, "O yes," she said, "the poor so was perfectly happy and watalking to her husband off a on through the night, as if were really lying beside her.

Once on my hospital visit found a patient propped up bed, smoking a cigarette a reading the morning paper. It seemed to be normally conval

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**†**Trademark

Medrol hits the disease but spares the patient cent after an appendectomy a week earlier. As I left his room the nurse stopped me to report that the patient had been talking to some visitor invisible to her, who he said was dressed in white. I went back to ask him about it. "Oh, it was only my sister," he answered casually and went on reading the newspaper. His sister had died previously, vet her presence seemed to him merely a natural fact. A few hours afterwards without any other warning, his heart suddenly stopped beating. In neither of these cases have I any reason to think that the one dying had any sure belief in the reality of the after life. They were not religiously inclined.

In the case I am now to describe, such a belief and inclination was my uncle's very life. For nearly a year he had been suffering what used to be the usual ups and downs of pernicious anemia. His mind had continued wonderfully clear. No sign had appeared that his death was near. He was apparently wide awake. Suddenly, he half rose from his couch to greet his father who had died many years before. His face was radiant with joy, as he called me to join in the welcome of his visitor. Evidently disturbed by my hesitancy, he asked anxiously, "Did you not see your grandfather?" I had just finished a letter saying I saw no reas why my uncle should not li for months to come, and I add a postscript, telling of the vis and of my belief that the a would come very soon, and did.

Whatever may be the explan tion of such visions, they affor great comfort to those who cept them as evidence of reality and nearness of the who have gone before. So, to do the last words or rapture looks of the dying, when the seem directed beyond this world Those less credulous and w wanting to believe will ask, wi Dr. Clarke: "May not the gold bowl, just as it is shattered. touched by rays from a life that is above it and flash with glory no language can describ

It is the physician's function decide when all treatment signed for restoration shall replaced by what is more like to comfort the patient. Devotion to the truth does not require physician always to voice fears or to tell his patient he thinks he knows. But, all he has decided that the proces of dying has actually begun, of in exceptional circumstante would a physician be justile in keeping to himself his opinion In such cases his only question should be whether to tell the tient or the family, and, whi

## AN ACID THERAPY

for bedridden as well as ambulant patients

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# Titralac

milk-like action...

no constipation or laxation...

no interference with gastrointestinal absorption...

## WHENEVER an ANTACID is indicated:

Peptic ulcer (gastric and duodenal)

Heartburn due to dietary or alcoholic indiscretions, pregnancy

Gastric hyperacidity associated with acute, subacute, and chronic gastritis

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Prompt prolonged action inywhere, anytime. Smooth, deliciously flaored tablets may be chrwid, dimolved in mouth, or wallowed with water.

Aminbility: White, mint-flavored tablets, each containing glycin 0.18 Cm, and calcium carbonate 0.42 Cm, in bottles of 100. for relief in a teaspoonful

Titralac° (



Availability: White, mint-flavored liquid, such teaspoonful (6 oc.) containing glycine 0.30 Gm. and calcium carbonate 0.70 Gm. In heating d 6 ft or

when spasm is a predominant factor

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Titralac plus homatropine methylbromide, for acute phases or when spasm contributes to symptom picture. Same delicious taste as Titralac tablets and liquid.

Assilebility: Pink, mint-flavored tablets, each containing Titraleformula plus 0.5 mg, homatropius mothylbromide, bettles of 160.



both are to be told, which to tell first.

Most dying patients have the feeling that death is near. Some know it well enough and yet want nothing said about it; or perhaps, while they like to talk of it with the doctor and nurses. they cannot bear to speak of it to their families. Some families. on the other hand, prefer not to be hold the truth and are particularly anxious lest anything be said that might alarm the patient. In other cases, perfect frankness all around is what is wanted. While decided family preferences are entitled to utmost consideration, there are certain obligations that require the physician to disregard them. Either the patient or the family, or both, may believe in the necessity of religious preparation for death. In such cases the physician is bound to give timely notice and also every facility for such ministrations.

Much of the uncertainty as to what should be said or left unsaid on such occasions is owing to general ignorance of the fact that death is almost always preceded by a perfect willingness to die. I have never seen it otherwise, even where the circumstances of life have made its continuance seem most desirable.

Our human nature is such that uncertainty is hardest to bear. And much of the frantic distress

of the family, which, if alloweth expression, would be disturbed and unfair to the dying pater of can be kept hushed by SS talk from the physician. I 2 5 can smother their sobbing ry they are told that the dying as tient, although apparently 11 conscious, yet may hear know all that is going on. A even on the remote chance their loved one will again bea to see them, if for only an ment, smiles can be made to kame tears from overflowing.

No small part of the phy cian's duty, and privilege, in tending the dying is to stea and comfort the stricken famil This can best be done by givi each one some share in the nu ing service. Even if clumsi their touch may be far mo grateful to the patient than the of the most skillful nurse. And only for their sake, whatev they can do they should be lowed to do.

In the life story of the greated physician any of us has ever known, which has been so well told by Harvey Cushing, there a lovely picture of his wonderful appreciation of personality. It is the mother's account d Dr. Osler's care of her dying child.

"He visited our little Janet twice every day from the middle of October until her allowth a month later, and istur se visits she looked forpaterd to with pathetic eagerby pass and joy . . . Instantly n. The sick room was turned into bing ryland, and in fairy lanying age he would talk about tly the flowers, the birds, and the ar a lls... In the course of this on he would manage to find out ace to the wanted to know about beare little patient.

an "The most exquisite mo-tok ent came one cold, raw November morning, when the phy and was near, and he brought aut from his pocket a beaustea ful red rose, carefully rapped in paper, and told low he had watched this last ose of summer growing in is garden and how the rose ad called out to him as he assed by, that she wishes to to along with him to see his ittle lassie.' That evening we teve all had a fairy tea party, at tiny table by the bed. Sir William talking to the rose,

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little lassie and her mother in a most exquisite way . . . and the little girl understood that neither fairies nor people could always have the color of a red rose in their cheeks, or stay as long as they wanted to in one place, but that they nevertheless would be happy in another home and must not let the people they left behind, particularly their parents, feel bad about it; the little girl understood and was not unhappy."

If our eyes moisten over this example of perfect practice of our art, let no despair from being so far behind this great master prevent us from following such leadership. Above all, let us remember that our duty to our patients ends only with their death, and that in the preceding hours there is much that we can do for their comfort. At the very least, we can stand by them.

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his little lassie and her mother in a most exquisite way . . . and the little girl understood that neither fairies nor people could always have the color of a red rose in their cheeks, or stay as long as they wanted to in one place, but that they nevertheless would be happy in another home and must not let the people they left behind, particularly their parents, feel bad about it; the little girl understood and was not unhappy."

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in premenstrual

tension



clinicians report rapid relief with

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#### original article

#### Pastel" Children

WILLIAM DANIEL SNIVELY, JR., M.D., \* Evansville, Indiana

The irritability, retarded growth, and susceptibility to infection and distive upsets of these children, devibed as "pastel" because of their riking pallor, are apparently attribable to a deficiency of protein ier diets. Re-education of the parts is the most important approach therapy.

Childhood malnutrition in a nd of plenty is a paradox, yet buntless American children are utritionally submarginal. Altough such children appear surficially normal, an objective opraisal reveals that they are etarded in their growth, irrible, victims of repeated digesve upsets and infections. The riking pallor of these tired hildren led one pediatrician to escribe them as children in the astel tints.

#### The Typical "Pastel" Child

The stereotyped presenting

complaint is that the child won't eat. A thumbnail sketch would reveal a four-year-old taken to the doctor because he tires quickly, is nervous, and refuses to eat at mealtime. Such a child might live with four adults-his parents and grandparents. At meals he is the target of a barrage of coaxing and bribing. He nibbles constantly between meals, washing down crackers and cookies with milk and soft drinks, and then refuses to eat meat and other solid foods at the table.

This typical "runabout" is underweight and under height for his age. His tissues and muscles are soft and flabby, and his posture is poor. He has many decayed teeth and a pale skin. He characteristically has a hypochromic microcytic anemia. He is irritable and resents the physician's examination. Strangely enough, the immediate responsibility for this kind of malnutrition rests upon parents who try too hard.

ttending Physician, Child Health Confernces, St. Mary's and Protestant Deaconess foupitals; Lecturer in Pediatrics, University I Louisville School of Medicine; Vice Presient, Medical Director, Mead Johnson Comany, Evansville, Ind.

#### Facts and Fancies About Growth and Appetite

The problem starts when the baby's growth rate drops precipitously beginning about the fourteenth month. During the first year, baby has gained about sixteen pounds, as much as he will gain in the next four years added together. His growth rate then decreases until a sort of vallev of minimal growth occurs during the third or fourth year. After this the growth rate accelerates, reaching a peak in adolescence, when it almost equals in absolute terms the rate during infancy.

Appetite parallels growth rate. When the growth rate drops, so does the appetite. The baby's growth rate is high and his appetite ravenous. The pastel child's growth rate is low and his appetite minuscule. Most parents and some physicians are unaware of this drastic drop in the growth rate. While the child's appetite and desire for food have decreased, mother's desire to poke food into him has not lessened one whit.

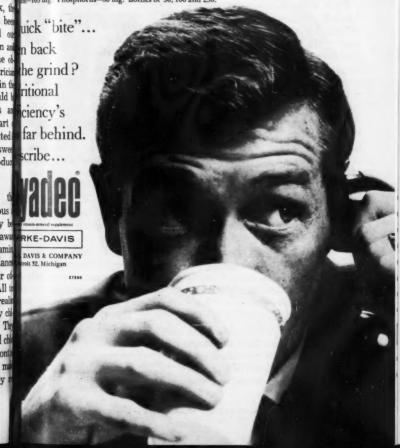
Unfortunately, most parents are poorly informed regarding the facts of nutrition and growth and are provided instead with a motley assortment of fables. They don't realize, for example, that infants and children should be fed in accordance with their appetite, which is determine largely by growth needs. The don't realize that while milk cos tains important nutrients, it not the alpha and omega of me es trition. Preschool children ten la to substitute milk and reading gulped tidbits for a balance diet when food is forced at mea time. In 1931 Doctor Joseph M. Brennemann, the father of model ern pediatrics, said: "Milk, the great 'protective food,' has been crammed down our and ou children's throats, in season and out of season, although the ob serving, practical pediatrical has long known that even in the use of milk children should be use of milk, children should dealt with as individuals a that the slogan of 'a quart milk or more a day' originated the laboratory, and has a swe er sound to the milk produc than to the pediatrician."

Parents don't realize fruits are just as nutritious vegetables and are usually be ter accepted. They are not awa that minerals and vitamin while necessary for a balance diet, are not substitutes for of er nutritional essentials. All frequently they do not real that proteins are needed by the dren as well as animals. The don't realize that no normal ch will starve with food in from him unless an attempt is me to force him to eat. They

tive people who won't take time to eat properly, MYADEC can help prevent nine encies by providing comprehensive vitamin-mineral support. Just one capsule The supplies therapeutic doses of 9 important vitamins plus significant quantitations and trace elements. MYADEC is also valuable in vitamin it into an atress states, in convalescence, in chronic disorders, in patients on fine estricted diets, or wherever therapeutic vitamin-mineral supplementation is

eadil MYADEC Capsule contains: VITAMINS: Vitamin B12 crystalline-5 mcg.; Vitamin B2 (riboflavin)ance: Vitamin B<sub>1</sub> (pyridoxine hydrochloride)—2 mg.: Vitamin B<sub>1</sub> mononitrate—10 mg.; Nicotin— (niacinamide)-100 mg.; Vitamin C (ascorbic acid)-150 mg.; Vitamin A-(7.5 mg.) 25,000 mea Vitamin D (25 mcg.) 1,000 units; Vitamin E (d-alpha tocopheryl acetate concentrate)—5 I.U. Osep als: (as inorganic salts) Iodine-0.15 mg.; Manganese-1 mg.; Cobalt-0.1 mg.; Potassium-: Molybdenum-0.2 mg.; Iron-15 mg.; Copper-1 mg.; Zinc-1.5 mg.; Magnesium-6 mg.; m-105 mg. Phosphorus-80 mg. Bottles of 30, 100 and 250.

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sometimes erroneously convinced that hunger is a harmful sensation, and that children should never be permitted to remain hungry. They fail to realize that no preschool child should be expected to eat three large meals a day.

#### Problems of the Transition Period

Even when parents are well informed, provision of optimal nutrition for the runabout is not easy. He is a "changeling" (neither baby nor child). One of his most perplexing transitions concerns the form in which food is taken. During the first year he is essentially a sucking animal. After this he must learn to chew his food and to employ adult utensils. Another basic problem is that, although his over-all rate of growth has slowed down, his muscles and bones are developing in an important way. Hence protein. which provides the building blocks for growth, is needed in increasing rather than decreasing amounts. Emotional and social growth are making inordinate demands, too. During the preschool years the child becomes an individual-an assertive, negativistic individual. While he is choosey, he can't make choices. So, parental misinformation on the one hand and the inherent problems of the preschool transition period on the

other add up to malnutrition a pastel tinted child.

#### Childhood Hypoproteinosis

The diets of these children a strikingly inadequate in protein Probing and careful appraisal the history are required. It mother is asked to record every thing that goes into the child mouth for a period of two a three days. The protein contains then checked, using for the purpose one of the excelled booklets available. I

There are no adequate labor tory tests for mild protein d ficiency. The albumin level the blood, helpful as an index severe malnutrition, is not used childhood hypoproteinos perhaps because a decrease the blood volume with result hemoconcentration makes an normally low albumin level: pear normal. The hemoglob level is a fairly accurate to provided the child has been a ting adequate amounts of im hypochromic anemia seen in these children pears to be caused not only iron deficiency but by protein deficiency as well. Provision one of these nutrients without the other will not improve to blood picture.

Bowes, A. deP., & Church, C. F., M. Values of Portions Commonly Used, duby A. deP. Bowes, Eighth Edition, Call Offset Press, Philadelphia, 1956.



safe antibiosis Triacetyloleandomycin, e

Triacetyloleandomycin, equivalent to oleandomycin 125 mg. This is the URI antibiotic, clinically effective against certain antibiotic-resistant organisms.

fast decongestion

Triaminic®, 25 mg., three active components stop running noses. Relief starts in minutes, lasts for hours.

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Calurin®, calcium acetylsalicylate carbamide equivalent to aspirin 300 mg. This is the freely-soluble calcium aspirin that minimizes local irritation, chemical erosion, gastric damage. High, fast blood levels.

TAIN brings quick, symptomatic relief of the common cold (malaise, headache, muscular cramps, aches and pains) especially when susceptible organisms are likely to cause secondary infection. Usual adult dose is 2 Inlay-Tabs, q.i.d. In bottles of 50. It only. Remember, to contain the bacteria-prone cold...TAIN.

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#### **Indoctrinating the Parents**

First of all, parents are helped to realize why good nutrition is important. They must accept the fact that the child's health depends in large part on what he eats. Unfortunately permissiveness in diet results in a high carbohydrate diet, washed down with palatable liquids. Children once conditioned to an intake of milk, sweets, and starches continue to crave it. Proper nutrition is required for health, which means vigor, adequate resistance to infection, a ruddy color, firm straight bones, sound teeth, firm musculature, and a happy psychologic outlook.

Next, parents are told what foods are needed for health. The importance of protein must be explained to them; they must realize that foods providing generous amounts of this nutrient must replace high carbohydrate tidbits and palatable liquids, and that the important high protein foods include eggs, cheese, poultry, fish, and some vegetable proteins, particularly soybean protein. Though milk contains protein, it is a dilute source and too often is used as a vehicle for washing down starchy foods. The child drinking excessive amounts of milk and not eating other foods in sufficient quantities is all too frequently malnourished.

Parents should also realize

that a nutritionally deficient in child cannot be restored by the expedient of a tonic. No tonic can relieve the parents of the mon difficult task of establishing the new way of family life required if sound eating habits are to be developed.

#### Recommended Diet

After the parents have been told what protein is — how it is the "keystone nutrient" essential for growth, for defense against infection, for repair of tissues, and for manufacture of enzymes—then they are given the following diet list:

#### BREAKFAST

Fruit juice
Egg & bacon or ham
Cereal or whole-wheat toast & but 
Small glass of milk at end of meel 
LUNCH

Fruit
Cottage cheese, egg or meat
Whole-wheat or rye bread & butter
Small glass of milk at end of meal
DINNER

Meat, fish or chicken
Vegetables or fruit
Whole-wheat bread & butter
Fruit dessert
Small glass of milk at end of meal

When milk has been consume to the exclusion of other food it is omitted from the diet und the disorder has been corrects. For the child "addicted" to make this omission is the key to see cess, accomplishing abruptly the drastic changes in eating has necessary for correction of the ailment.

#### cier Inducing Healthful New Eating Habits

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com How do parents go about inmore uencing the child to eat the g the uired cessary foods?

1. There must be a time and to be ace for eating; the time is ealtime and the place is the ble. No food will appear atactive if the child can eat anybeen ing any time any place. The the made to want to eat by owning him in a sea of food.

2. With rare exceptions only re of give uit, vegetables, and water ould be allowed between eals. Hunger is the chief stimus to eating, the only stimulus the preschool child. It is fun butto eat when hungry. A child who me hungry is an underprivired child.

B. Mealtime should be made bort and pleasant: the decision eat or not eat should be made w the child. If he does not care eat he should be dismissed on the table promptly with no sum ore food until the next meal. should not be punished with the cold of the col

one family group, is not a privi-ost ed character but is to eat the lytenily fare. Small amounts of half d, with emphasis on protein,

should be placed before him. He should be given additional amounts if he desires them, but only if he desires them.

#### **Preventing Poor Eating Habits**

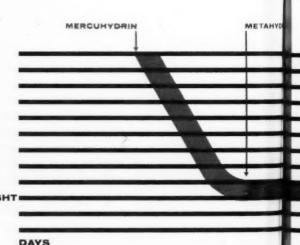
Prevention of childhood malnutrition is better and easier than cure. It can be achieved by consultation between parents and physicians at the end of the first year. In this conference the doctor points out that the baby's growth rate, like his appetite, will decrease drastically shortly after his first birthday. The mother is helped to realize that she must sublimate her maternal instinct for poking food down the child's throat into active interest and enthusiasm for his total growing-up process.

The bottle should be abandoned abruptly at the end of the first year. There are many reasons against the bottle habit following the end of the first yearsanitary, nutritional and psychologic. Milk should be confined to a small glass at the end of each meal, not more than a pint to a pint and a half a day. The pernicious habits of between-meal snacks and sweet desserts should be discouraged. The child is developing his lifelong eating habits, for which reason it is basic that he learn to enjoy sound NOW...ESSENTIAL PARTNER

# CLASSIC MERCUHYDRIN BRAND OF MERCURIAL METAHYDRIN

BRAND OF TRICHLOR

THE ALTERNATE OR COMBINED USE OF THESE IN DRUGS NOW CAN HELP THE PHYSICIAN MEET WE MAXIMAL EFFICIENCY THE DEMANDS OF DIURE THERAPY IN ALMOST ANY PHASE OR DEGREE EDEMA—ACUTE OR CHRONIC.



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LAKESIDE LABORATORIES, INC.

here imme liate diuresis is urgent, there no substitute for MERCUHYDRIN's lity to provide rapid return to "dry IER ight." No v, with the introduction of TAHYDRIN, the most effective oral non-EMarcurial divretic for maintenance is also ilable. If for any reason weight inases, the periodic use of MERCUHYDRIN low dosage will assure return to dry ight and further minimize potassium loss. No single drug can provide optimal rapy for the management of all condins of edema in all patients. As is well own, too vigorous or prolonged use of one diuretic may result in disturbances fluid and electrolyte balance with inter-SE In tion of therapy. METAHYDRIN may be d alone to initiate diuresis in the less ical patient or with MERCUHYDRIN to URE ance diuresis in the severely ill patient. REE these conditions, and in maintenance, AHYDRIN'S prolonged effect and favorratio of sodium-to-potassium excreprovides maximal benefits in diuretic

rapy.

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#### METAHYDRIN

Trichlormethiazide, Lakeside. New oral diuretic of the benzothiadiazine group for the management of edema and hypertension. More potent than similar diuretics reported to date. Effective in low dosage. Lessened risk of K and HCO3 loss than with chlorothiazide or hydrochlorothiazide. Action more prolonged than with other benzothiadiazine derivatives. USES: Edema in congestive heart failure, the nephrotic syndrome, hepatic cirrhosis, toxemia of pregnancy, edema caused by drugs, premenstrual tension, edema of pregnancy. In mild and moderate hypertension as primary therapy or in conjunction with other hypotensive agents in reduced dosage, PRECAUTIONS: Patients with severely reduced renal function should be observed for acidosis and hyperkalemia. Disturbed olucose and uric acid metabolism or excretion have not been reported but may occur. Patients with hepatic cirrhosis or diarrheal syndromes, or under therapy with digitalis, ACTH, or potassium-losing adrenal steroids, should be observed for signs of hypokalemia, even though its occurrence is less likely with METAHYDRIN than with hydrochlorothiazide or chlorothiazide. For detailed information on indications, dosage, administration, precautions and side effects refer to METAHYDRIN package insert. SIDE ACTIONS: Nausea, flushing, mild muscle cramps, constipation may occur occasionally; skin rash rare. DOSE: Edematous states and Hypertension: 2-4 mg, once daily after breakfast. Higher doses may be given initially. Individual doses exceeding 8 mg. do not increase diuresis. SUPPLIED: 2 and 4 mg, tablets in bottles of 100 and 1000.

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### Blood pressure that goes up with str often comes down with SERPASIL

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One reason that many cases of hypertension respond to Serpasil is that many cases are associated with stress. Stress situations produce stimuli which pass through the sympathetic nerves, constricting blood vessels, and increasing heart rate. Hyperactivity of the sympathetic nervous system may elevate blood pressure; if prolonged, this may produce frank hypertension. By blocking the flow of excessive stimuli to the sympathetic nervous system, Serpasil guards against stress-induced vasoconstriction, brings blood pressure down slowly and gently.

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In severe hypertension, Serpa valuable as a primer. By adjusting patient to the physiologic sets lower pressure, it smooths the more potent antihypertensives. In all grades of hypertension, Semay be used as a background a By permitting lower dosage of potent antihypertensives, Seminimizes the incidence and a of their side effects.

\*Coan, J. P., McAlpine, J. C., and Boone, J. A.: J. South Carolina M. A. 51:417 (Dec.) 1955. implete information available on request.

## Facial Dermatitis Venenata: Two Unusual Cases

GEORGE E. MORRIS, M.D.,\* Boston, Massachusetts

▶The possible causes of facial dermatitis are many and varied, requiring that the history be searching and the physician be alert and openminded in taking it. When dermatitis recurs seasonally it may not be the allergen that is seasonal, but the patient's opportunity for contact with it.◀

Two unique cases of dermatitis venenata of the face are presented to focus attention on the mportance of getting thorough searching case histories and of being flexible in interpreting hem. Diagnosis was difficult in the first case, obvious in the second.

#### CASE 1

A woman first seen in 1953 stated hat she had had an eruption of the ace and neck intermittently for three ears. It started in November of 1950 nd lasted five days at that time. The econd year it again commenced in November but lasted until May. The hird year it started in the late fall nd again remained until May.

When seen October 28, 1953, she had ad a rash for four weeks. The eyelids, Member of the Committee on Occupational Dermatoses of the Council on Industrial Health of the American Medical Association.

the face, and the exposed parts of the neck were red, slightly swollen and scaling. There was some thickening of the skin of the back of the neck and of the chin. She had previously been told to avoid hair-wave solutions and rinses, to use "non-allergic" cosmetics, and to try synthetic detergents in place of soap. She was tested with hairwave solution, wool, and rayon. All of these tests were negative. She was judged to have a contact dermatitis and was given cold compresses to apply. She was seen over a period of six weeks, and was discharged as cleared.

A year later the patient stated that her eruption had appeared again four weeks previously, and that she had not been able to clear it. The eyelids and neck were red and swollen. Tests with rayon, feathers, and certain fall flowers (i.e., a gardenia, a begonia, and a chrysanthemum) were negative.

She then volunteered the information that her rash had broken out each year after she had gone to the attic to get the winter clothes out for her family. She was accordingly tested with dust from the attic, which looked like soot. When this was left on for 48 hours she had a four-plus reaction, the reaction site showing large confluent blisters. She was advised not to go to the attic again, and since avoiding the attic has had no recurrence of the eruption.

#### Comment

Though it is well known that



"Chloral hydrate...oldest [synthetic] member of the hypnotic group and clinical experience shows...it is still one of the best."

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Squibb Chloral Hydrate

... and the rest is easy!

DOSAGE: Adults—one or two 7½ gl capsules or one or two teaspoonfuls of Noctec Solution 15 to 30 minutes before bedtime or ½ hour before surgery. Children—one or two 3¾ gr. capsules or ¼ to 1 teaspoonful of Nocte Solution, depending on weight, 15 is 30 minutes before bedtime or ½ hom before surgery.

SUPPLY: 7½ gr. and 3% gr. capsula Solution, 7½ gr. per 5 cc. teaspoonful

For complete information, consult package insert or write to Profesional Service Dept., Squibb, 745 Fifth Ave., New York 22, N. Y.

REFERENCE: 1. Goodman, L. S. and Gilman's The Pharmacological Basis of Therapetia, Second Edition, New York, Macmillan, 15, p. 163.

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easonal facial dermatitis freuently occurs as a result of conact with pollens from trees, rass, weeds and the like, apparntly no dermatitis resulting rom seasonal contact with dust an attic has previously been eported. A patch test with the sulation material of the attic ras suggestively positive, but of nearly as positive as her rection to the attic dust. No single actor in the dust which would ause her rash could be isolated.

#### CASE 2

This woman was seen in February 1959 with a rash on the face of five ys' duration. She stated that she dependent of the stated that she had been well until eight days prior her visit when because of a cold had started to wear a hygienic ask to avoid infecting her infant. fire 48 hours of such use she had ticed redness and watering of the ea covered by the mask and had plied a household remedy without ccess.



Figure 1
Dermatitis from Hygienic Mask.

On examination, the chin, the adjacent parts of the cheeks, and the area immediately contiguous to the nose showed a bilateral symmetrical redness with moisture and scaling. The lips and lower parts of the face were slightly swollen. The rash was sharply outlined to the area covered by the mask (Fig. 1).

A patch test with the mask, after it had been thoroughly cleaned, was positive after 24 hours, with redness and vesicles. The patient was given cold saline compresses and riboflavin by mouth, and was told not to use the mask. In three weeks' time the eruption was entirely cleared.

#### Management of Labor Pain

A synthetic derivative of morme him (Numorphan) was given
100 unselected patients in lator, the initial dose being 0.5 to
0 mg. injected after labor was
ell established. Oral barbitutes were given at the same
me, and if delivery did not ocur within 4 hours the medicaons were repeated. Relief of
the was obtained within 5 to
0 minutes after injection, the
rerage duration of analgesia beg 4 to 5 hours. The quality of

pain relief was good in 72%, fair in 23%, and poor in 5%. Side effects were nausea in 6 with vomiting in 3 of these. Live births, with infants in good condition, occurred in 99 cases, one fetus having died in utero. There were 2 depressed infants in the series, both of whom recovered. It was believed that the drug was given too near the time of birth in these cases.

Simeckova, M., et al., Obst. & Gynec., 16:119-123,1960.



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LOMOTIL represents a major advance over the opium derivatives in controlling the propulsive hypermotility occurring in diarrhea.

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Whenever a paregoric-like action is indicated, Lomotil now offers positive antidiarrheal control . . . with safety and greater convenience. In addition, a a nonrefillable prescription product, Lomotil offers the physician full control of his patients' medication.

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## The Case for Rear Facing Seats in Commercial Aircraft

HORACE E. CAMPBELL, M.D. Denver, Colorado

Military experience shows that 75 er cent of serious injuries in take-If and landing crashes could have een prevented if passengers had een in rear facing seats. Although commercial airlines fear customers would object, surveys of military passengers showed that only 3 per ent disliked this arrangement.

The advantages of having airplane seats face to the rear betame apparent during World War II, when personnel in miliary aircraft (chiefly bombers) experienced many forced landthe lings. Usual "ditching procedure" was for those not at the controls is to sit on the floor, facing the rear, in with backs and hips against a bulkhead and a pad of some sort a behind the head. Rationale for this position was that a greater area of contact and therefore a greater reduction of impact force per square inch was achieved than with a forward facing posiion.

#### Deceleration Force

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Investigations using rear fac-

ing seats and seat belts of various widths show that the force per unit area on restrained body mass increases quite rapidly as area of application decreases. The force on seats and seat belts when a 150-pound individual exerts eight gravitational units of pressure in a sudden stop1 is shown in Table 1.

Thus, it requires 13.8g to produce a force of 10 pounds per square inch in a back facing seat, 4g to produce the same force on a 3-inch lap belt, and only 2.7g for a 2-inch lap belt. Currently, forward facing seats are used in commercial passenger planes, relying upon the belts for deceleration control. With rear facing seats, the belt reverts to its original function, i.e., keeping the passenger in the chair in rough weather.

#### Military Experience

Military aircraft in the United

Fryer, D. I., Air Ministry Flying Personnel Research Comm. Report, FPRC 1055, 1958.

# aster when treated with

## Sterosanhydrocortisone

In Sterosan-hydrocortisone the antibacterial and antifungal properties of Sterosan are teamed with the agit-inflammatory and anti-allergic properties of hydrocortisone to produce rapid healing of virtually all the common dermatoses. The effectiveness of Sterosan-hydrocortisone is attested by reported improvement rates of 80 to 90 per cent of all treated cases. \*\*

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Geigy

(1) Fox. H. H.: Antibiot Med. & Clin Trapp 6:85, 1959. (2) Lubowe, I. I.: Antibiot Med. & Clin Therapy 4:81, 1957. (3) Murphy, J. C.: Rocky Mountain M. J. 55:53 (June) 1958. (4) Pace, B. F.: Med. Rec. & Ann. 57: 370, 1957.

Sterosan - hydrocortisone, briss of chlorogunal doll with hydrocortisone. Cream and Ointment, each containing 3 of chlorogunal doll with 15 of hydrocortisone in tubes of 5 Gm and 20 Gm. Prescription only.

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TABLE 1

#### FORCE PER UNIT AREA ON RESTRAINED BODY MASS (150 LBS. AT 8G)

	AREA OF APPLI	CATION LOADS IN LBS./SQ. IN.
2-inch lap belt	40 sq. ir	1. 30
3-inch lap belt	60 sq. ir	n. 20
Rear facing seat	208 sq. ir	5.77

tates, Canada, and Great Britn are equipped with rear facg seats for all passengers. Brith<sup>2</sup> experience prior to the time hen rear facing seats were inalled showed that 44.9 per cent passengers were killed or seriusly injured in crashes, while aly 10.9 per cent of passengers ere killed or seriously injured crashes after rear facing seats ere in use. Since these figures ere based on crashes listed as ircraft destroyed," they may said to provide unequivocal idence of the superior safety rear facing seats.

Experience of the United ates Military Air Transport rvice<sup>3</sup> has been similar. In all cidents involving its aircraft er a two-year period, the fality rate was 11.1 per cent in ward facing and 1 per cent in ar facing seats; currently, all litary Air Transport aircraft

are equipped with rear facing seats.

#### Appraisal of Commercial Airliner Crashes

Assuming the more conservative British figure (three out of four passengers saved by rear facing seats) it is postulated that 60 of the 79 persons killed in the nine "survivable" commercial airliner crashes\* in the United States, 1954 to 1957, might have survived, and that 40 of the 54 seriously injured might have had only minor injuries if they had been in rear facing seats. Crashes in which the decelerative forces were slight and deaths due solely to fire were not considered. Compared to the 30,000 persons who die and the 1,500,-000 who are injured each year in automobile accidents, this seems to involve very few persons. To the families concerned, however,

\*Berlin, N.H., Nov. 11, 1954; Springfield, Mo., March 20, 1955; Chicago, July 17, 1955; Jacksonville, Dec. 21, 1955; Owensboro, Feb. 17, 1956; Pittsburgh, April 1, 1956; Seattle, April 2, 1956; Tulsa, Jan. 6, 1957; and New Bedford, Sept. 15, 1957.

Gronow, D. C. G., Air Ministry Flying Personnel Research Comm. Report, FPRC 807a, 1954. Moseley, H. G., Directorate of Flight Safety Research, U. S. Air Force, 1957.





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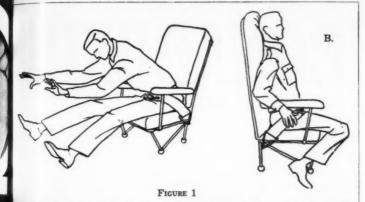
Literature describing details of administration and dosage available on request.

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Pardo-Castello, V.: A.M.A. Arch. Dermat. 81:772, 1960.

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A. Crash forces concentrated on the belt area in forward facing position, but with lower center of gravity and shorter moment-arm. B. Wider application of crash forces in rear facing position with higher center of gravity and longer moment-arm about the seat-to-floor attachments.

hese aircraft fatalities seemed of he greatest importance.

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#### Objections Often Voiced to Rear Facing Seats

The most pointed objection to he rear facing seat is that the ION rect posture places a more seere strain on the seat-to-floor ttachments than does the deeply exed position assumed in a rash in the forward facing posion. Thus, with any given rength of seat-to-floor attachent, the forward facing seat is ore likely to remain attached the floor, if it is not struck by e passenger in the seat just ehind. In order to achieve their

potential of safety,4 forward facing seats must be spaced far enough apart so that each occupant has a clear swing forward over his seat belt. Any force exerted on the seat in front reduces by that much the safety of that seat.

There is evidence suggesting that the seats now being used in commercial aircraft are unnecessarily heavy, and that a rear facing seat with the stronger fittings which it requires can be designed to weigh less than the seats now in use. Even though the seats might weigh more, weight costs must be balanced against the 15 to 20 lives lost and the 10 to 15 passengers seriously injured each year. How-

Pinkel, I. I., Am. Soc. Mech. Eng., New York, 1959.



# BONADOXIN

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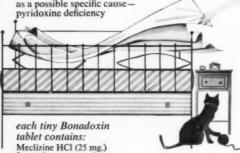
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Bibliography on request. For infant colic, try Bonadoxin Drops. Each cc. contains: Meclizine 8.33 mg./ Pyridoxine 16.67 mg.



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ver, regardless of the direction which the seats face, injuries re severe when the seat tears

Operators of commercial airnes fear also that customers will ject to riding backward in airanes. Unpleasant inner ear halancing) disturbances are ingred in some by unusual visual imuli: however, these exist onwhile the plane is landing or king off, and can be eliminated v closing the eyes during these w minutes. A survey of 10,-0 passengers in military planes ith rear facing seats showed at 65 per cent favored this seatg because of the view it proded, the comfort of the ride, nd the absence of airsickness: per cent said the direction of ating made no difference, and per cent disliked back facing ats.

#### A Tragic Case

A tragic and typical case in oint is the Eastern Air Lines' lectra crash in Boston Harbor October. While many of the stails are still obscure, prelimary reports stated that the pit, co-pilot, and two stewardses were survivors. It is signicant that four of the five crew embers survived, and only sevon the 67 passengers. This was typical take-off crash.

On the author's one Electra ght, the stewardesses occupied on take-off and landing two small, folding, rear-facing, beltequipped "jump-seats" installed on the aft wall of the galley compartment, the safest seats in the airplane.

The fact that the pilot and copilot survived indicated that the crash was definitely survivable, since the crash forces are ordinarily most severe at the forward end of the fuselage. The newer airplanes are fitted with well-designed pilot chairs, strongly anchored to the floor, and equipped with belts, of course, and in addition, shoulder straps mounted on inertia reels.

Concerning the passengers, this over-water crash brings to light the usual circumstance, all or most of the seats tore loose from their fastenings (see photograph on page 27 of the October 17 issue of the weekly newsmagazine, TIME), permitting the occupants to receive fatal head injuries.

General Quesada and the FAA should issue regulations which will help prevent the deaths and injuries, even if they can not prevent the crashes.

#### Summary

In the experience of the Royal Air Force and the United States Military Air Transport Service, rear facing seats in aircraft provide a greater area of contact and therefore a greater reducrunaway diarrheas..

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on of impact force per square ach in crashes than do forward acing scats. The incidence of crious injuries and deaths was educed by 75 per cent or more after the installation of these seats in military planes, a finding which should not be ignored by operators of commercial airlines.

#### hysician's Responsibility Epileptic Drivers

The physician should advise pileptic patients of the risk of izures while driving and of the onsequent danger to the patient, is passengers, and other users the highway. It would also be ermissible for the physician, unss specifically forbidden to do by the patient, to acquaint the tient's spouse or other memrs of the family with the danrs involved. In the case of a inor patient, such advice ould be given to the parents, hether or not the patient gives s consent. Failure to give such vice probably imposes no legal a bility upon the physician for mages arising from an acci-(1 1.4 ent.

physicians licensed to practice edicine in Wisconsin were edicine in Wisconsin were remerly required to report all ileptic patients to the local ealth officer, who in turn reyed the information to the Month vehicle Department via the local at Board of Health. The result of this statute indicates at highway safety is being con-

sidered retarded rather than advanced by laws requiring physicians to initiate reports of epileptic patients to state agencies having control over the issuance and continuance of motor vehicle operators' licenses. Such laws dissuade many epileptic patients from seeking treatment and encourage them to keep their condition secret. Concealment, in turn, tends to increase rather than decrease the number of epileptic licensed drivers on the highways, and to decrease rather than increase the likelihood of their cure.

Existing Wisconsin law fixes upon the epileptic patient himself the duty to report his condition, and outlines a procedure whereby, in certain cases at least, he may have a temporary license renewable at 6-month intervals provided he submits to a periodic medical examination by a physician, who in turn certifies as to the patient's competency to drive.

Special Feature, Wisconsin M.J., 59:48-49,1960.



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# original article

## Anesthetic Cream in Allergic Pruritus

JONATHAN FORMAN, M.D., F.A.A.A., \* Columbus, Ohio

Combining two local anesthetics of ow sensitization, one providing rapid action and the other prolonged action, makes this cream useful in prutitic skin disorders. Effective relief ras provided in 95 per cent of cases, and the incidence of sensitivity reactions in 169 allergic patients was ally 1.18 per cent. ◄

Despite the variety of topical nesthetic agents introduced since be discovery of cocaine, there emains need for a satisfactory on-toxic non-sensitizing comletely effective antipruritic and paigesic agent. The incidence of nsitivity to local anesthetics has een reported to range from 10 40 per cent,1 the "caine" or ara-aminobenzoic acid esters beng the principal offenders. It has een estimated that 40 to 50 per ent of cases of dermatitis vennata are due to medication and at between 10 and 20 per cent these are due to local anesnetics.2 Although there may be no history of previous exposure to local anesthetics, sensitization may have been produced by previous administration of some chemically related compound. PABA (para-aminobenzoic acid), a compound frequently administered with salicylates and corticosteroids, is an outstanding example of such a collateral sensitizer.

The infrequency of published reports of hypersensitivity reactions to local anesthetics is surprising in view of the frequency of occurrence. Nevertheless the physician should exercise great discretion in dispensing or prescribing local anesthetics and be constantly alert for the first sign of a skin reaction. Local reaction to a surface anesthetic agent may first appear only as redness and pruritus. With further application the inflammation may extend, accompanied by swelling, vesiculation, weeping, crusting and extreme discomfort. Patches may appear in parts of the body other than the site of applica-

Imeritus Lecturer on Allergy, Ohio State Inversity College of Medicine; Past Presient, American College of Allergists.

Gaul, L. E., J.A.M.A., 157:721,1955.
Osborne, E., J.A.M.A., 146:720,1951.

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tion; occasionally generalized dermatitis results. Recovery is generally protracted.

#### A New Anesthetic Cream

This paper reports clinical experience with a new topical anesthetic preparation\* introduced for evaluation of its therapeutic qualities and safety in actively allergic patients. The preparation is a cream containing 0.5 per cent each of pramoxine and diperodon hydrochlorides. The vehicle is a water miscible base adjusted to pH 4.5, previously found to be non-sensitizing in 268 allergic patients.3 These two surface anesthetic agents are not of the "caine" type. Pramoxine contains a morpholino radical unique among clinically useful local anesthetics, and diperodon is a phenyl urethane derivative. Each of these compounds, previously presented as 1.0 per cent concentrations, has a history of relatively negligible sensitization. It was thought that the anesthesia produced by a combination of the more rapid action of pramoxine with the slower but unusually prolonged action of diperodon would be superior to that of either drug alone. This was confirmed in laboratory animals before the cream was submitted for clinical evaluation.

#### Preliminary Sensitivity Tests

A total of 169 actively allergi patients, several having historie of sensitivity to other local ane thetics, were patch-tested for sen sitivity to this preparation. Non of the patients with histories sensitivity to other local anesthet ics reacted to this new cream Only 1 of 45 patients reacted to the first patch test, none of given two tests reacted, only of 80 given 3 reacted, and non of 30 reacted when challenge four weeks later. This incident of sensitivity (1.18 per cent) notably low when one consider that all of these patients we actively allergic. It is particular ly significant when compare with the incidence of 10 to 40 p cent in unscreened patients whi has been previously reported with local anesthetics in gener

One of the two patients w did react, exhibiting a plus reaction following the first and cation, was a housewife with history of multiple allergies w was being treated for overtre ed dermatitis after making rounds of several physicians the area. The sensitizing ages were found to be methyl a propyl parasepts, two agents are widely used as preservating in the drug and cosmetic indi tries and have a well document history of hypoallergenicity. appears to be the first time

<sup>\*</sup>Nescuta®, The Columbus Pharmacal Co., Co-lumbus, Ohio. 3. Forman, J., Ohio State M.J., 51:987,1955.

Trancopal "... is the most promising muscle relaxant presently available. Its outstanding characteristics are safety, excellent tolerance and potency."

"From clinical examination of the patients, it was apparent that the combined effect of tranquilization and muscle relaxation enabled them to resume their normal duties in from twenty-four to forty-eight hours."<sup>2</sup>

"Chlormethazanone [Trancopal] not only relieved painful muscle spasm, but allowed the patients to resume their normal activities with no interference in performance of either manual or intellectual tasks."

"... patients were able to move with ease . . ."4

"The effect . . . was excellent and prompt . . . "5

"The patients [with torticollis] helped by the drug were able to carry the head in the normal position without pain."

"... Trancopal reduced restlessness and irritability in a number of patients.... Trancopal is exceptionally safe for clinical use."

**Dosage:** Adults, 200 mg. orally three or four times daily; in some instances 100 mg. three or four times daily are sufficient. Relief of symptoms occurs in from fifteen to thirty minutes and lasts from four to six hours.

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200 mg. (green colored, scored), bottles of 100. 100 mg. (peach colored, scored), bottles of 100.

References: 1. Cohen, A. I.: Current Therap. Res. 2:374, Aug., 1960. 2. Kearney, R. D.: Current Therap. Res. 2:127, April, 1960. 3. Lichtman, A. L.: Kentucky, Acad. Gen. Pract. J. 4:28, Oct., 1988. 4. DeNyae, D. L.: M. Times 87:1512, Nov., 1959. 5. Mullin, W. G., and Epifano, L.: Am. Pract. & Digest Treat. 10:1743, Oct., 1959. 6. Ganz, S. E.: J. Indiana M. A. 52:1134, July, 1959. 7. Gruenberg, F.: Current Therap. Res. 2:1, Jan., 1960.

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have been reported as allergens. The other patient who reacted, exhibiting a plus 3 reaction after the third application, was schoolgirl with a diagnosis of vesiculating eruptions superimposed on psoriasis. The causative agent was not ascertained.

#### Clinical Trial

A wide variety of skin disorders were treated in 80 actively allergic patients by repeated applications of the cream. These patients included 30 males and 50 females ranging in age from 14 months to 80 years. Intense itching or burning characterized nearly all cases. Although practically all areas of the body were represented, lesions of the face or hands predominated.

Distribution of dermatologic disorders was as follows: 22 had dermatitis (plant, contact, allergic), 17 urticaria, 16 eczema (mainly atopic, some with lichenification), 8 erythematous rash (including drug reactions), 6 eczematoid eruption (mostly "housewife's hand"), 4 angioedema, 2 psoriasis, 3 pruritis of unknown origin, 1 pityriasis versicolor, and 1 vesiculating eruption superimposed on psoriasis.

The medication was applied directly to the lesion three or four times daily, or as needed to control itching or burning, for periods ranging from four days to three months and averaging the weeks. The anesthetic cream the sole agent employed in cases. In 6 cases desensitization injections were given concurre ly. In 35 cases oral corticoster therapy was used in conjuncti with or before the anesthe cream. In 5 cases oral antihid mines were given concomitan with the cream, and in 2 cases topical corticosteroid ointme was used along with it. The tients were usually seen twice first week, then once a w thereafter until the lesions h cleared or were under control

#### Results

Response was judged satisfa tory to excellent in 76 patie (95 per cent), including 27 the 31 patients receiving no of therapy. In 23 of these, con of itching was followed by h ing of the lesions shortly the after without recourse to of medication. In several where antihistamine or cortic teroid therapy had failed, their ing was readily controlled by anesthetic cream. It was observe that corticosteroids when t with the cream could usually eliminated within three days

The four failures, in which cream was the sole agent us were a girl of 17 with see eczema and chronic lichenin tion who used the cream a



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Analgesics alone merely mask pain. New Medaprin adds Medrol\* to suppress the inflammation that causes the pain and stiffness. Thus, to the direct relief of musculoskeletal pain,

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sporadically, a boy of 11 with an ervthematous rash due to aureomycin, a man of 58 with static eczema, and a woman of 54 with psoriasis.

In none of these 80 patients was any allergic reaction or undesirable side effect attributable to the anesthetic cream observed.

#### **Summary and Conclusions**

A topical cream combining pramoxine and diperodon hydrochlorides was found in a study of 80 patients to be a safe and effective surface anesthetic in the treatment of a wide variety of skin allergies and other dermal disorders characterized by pruritus.

In the majority of cases (95

per cent) its use was follow by prompt and effective contractive of pruritus, and in many instance by subsequent healing of lesion

This preparation alone suffer in about one third of cases, cluding several where corticosts oid or antihistamine therapy h failed.

In the other cases it proved valuable adjunct to other me sures, particularly in consider ably shortening the period of on ticosteroid therapy.

No allergic reaction or to effect attributable to the prepa ation was observed in these patients, despite the fact that had allergic backgrounds a some were sensitive to other to 47 ical anesthetics.

#### Ventricular Fibrillation: Treatment and Prevention by Electric Current

Ventricular tachycardia or fibrillation was terminated 532 times in 8 patients. Alternating current (60 cycle, 0.15 second, 150 to 450 volts) was applied to the unopened chest with large electrodes, handles being held by different persons and no one touching electrodes or patient. The initial shock was with 150 to 250 volts, successively larger voltages being used every few seconds if necessary. Successful defibrillation depends on identification of the arrhythmia and application of external count ck shock within 4 minutes. This is to itation can be met by care monitoring. External electrical diac stimulation at rates about the basic idioventricular rate been effective in preventing discurrent ventricular arrhythment Though it must be interrupted re. times because of pain and ulceration, it has been apple ner for periods as long as 4 days. Ha Zoll, P. M., et al., New England J. Med. Edi 105-112,1960.

## rolotherapy in Low Back Pain from igament Relaxation and Bone Dystrophy

GEORGE STUART HACKETT, M.D., F.A.C.S.,\* Canton, Ohio

Chronic back pain is frequently used by weakness of ligament-tone attachments associated in a vipus cycle with osteoporosis. Injecns given in order to rehabilitate
to weld of ligament to bone have
a en successful in the treatment of Chronic back pain is frequently to 47 patients seen over a period of vears.

ved

Ligament relaxation was rerted in 1953 to be a cause of ronic back pain and in 1958 relation to bone dystrophy is documented.¹ Conclusions a cerning this frequent cause of ck pain are founded on obsertions made during the past 20 are while diagnosing and successfully treating it in 1847 pants. They are supported by x-tell y verification of osteoporosis d calcification, animal experients,¹ a survey of the literated re, and collaboration with austice of the control of the control of the collaboration with austice of the control of t s documented. Conclusions

thorities in the related fields of physiology, neurology, osteology, and glandular and vascular dyscrasias.2-4

Ligament-tendon relaxation accounts for many syndromes and causalgic and dystrophic states involving the spine, head, trunk and extremities that are characterized by pain and were formerly attributed to various radicular nerve impingements by bone, disk, adhesion or malformation, or were regarded as bursal, arthritic or psychiatric states.

#### Etiology

In ligament relaxation the fibro-osseous attachments become weakened and incompetent by decalcification in osteoporosis and do not regain their normal strength following sprains. The

peritus Surgeon, Mercy Hospital, Canton,

Hackett, G. S., Ligament and Tendon Re-laxation Treated by Prolotherapy, Third Edition, Charles C Thomas, Springfield, Ill., 1958.

da Takats, G., & Miller, D. S., Arch. Surg., 46:469-479,1943.

<sup>3.</sup> Wolff, H. G., Pain, Second Edition, Charles C Thomas, Springfield, Ill., 1958. 4. Wiggers, C. J., Physiclogy in Health and Disease, Fifth Edition, Lea & Febiger,

Disease, Fifth Ed Philadelphia, 1949.

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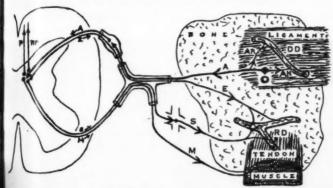
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FIGURE 1

Cycle of Pain, Referred Pain and Decalcification.



Barrages of noxious impulses originate O in afferent somatic sensory nerve A when stretching of weak ligament fibers under normal tension stimulates non-stretchable nerve fibrils within fibro-osseous junction.

Barrages of afferent impulses A are transmitted to spinal cord and brain where they are interpreted as pain P and referred pain RP.

Direct decalcification *DD* in area of ligament attachment to bone results from neurovascular imbalance of bone metabolism caused by antidromic impulses transmitted directly *AN* and by axon reflex *AR* to periosteal and bone blood vessels.

Reflex decalcification RD results from impulses transmitted reflexly from spinal cord through efferent E and sympathetic S nerves to bone

blood vessels.

Muscle spasm results from reflex motor impulses M as protective

measure.

n arises when weak ligament ers stretch under normal tenn and permit traction-stimuion of the nonstretchable seny nerve fibrils within the fiposseous attachments. Noxs barrages of sensory imses having their origin in the erent somatic sensory nerves

transmitted to the spinal cord

brain where they are inter-

preted as pain and referred pain (Fig. 1).

Simultaneously, barrages of impulses from the same origin are transmitted in an antidromic direction,<sup>2-4</sup> directly and by axon reflex to bone blood vessels where they cause direct decalcification in the area of ligament attachment to bone by a neuro-vascular imbalance of bone me-

tabolism. Barrages of impulses are also transmitted reflexly by efferent and sympathetic nerves to bone blood vessels where they cause reflex decalcification in larger areas of bone. Thus the attachments of all ligament-tendon fibers in the decalcified area are weakened and give rise to additional barrages of impulses of pain, setting up a fibro-osteoporotic vicious cycle.

Muscle spasm results from reflex barrages of motor impulses as a protective mechanism. Osteoporosis of disuse (Fig. 2) is caused by a lack of stimuli to promote bone metabolism. It is impossible to dissociate ligament relaxation and osteoporosis, for either may precede and induce the other.

#### **Diagnosis and Treatment**

Ligament-tendon relaxation is diagnosed by trigger-point tenderness at the attachment to bone and is invariably confirmed intraligamentous needling with a local anesthetic solution. Early osteoporosis is identified in x-rays by fading or disappearance of major trabeculae and by mottling of the bone margins as compared with the opposite side.2 It may be visible in three weeks.5

Ligament-tendon relaxation is treated by prolotherapy,1 a

De Lorimier, A. A., Bull. Hosp. Joint Dis., 12:22-37,1951.

2554

method of rehabilitation effects by inducing proliferation of ne bone and fibrous tissue cell This is done by intraligamento injection against bone of a mi ture of one part of a mild pr liferating solution\* to three par of a local anesthetic solution. A proximately 13,000 patients this country6 and abroad7 ha been treated in this way, 82 m cent considering themselves pe manently cured to their satisfa tion. Our experience has inch ed treatment of 1847 patien during a 20-year period.

Osteoporosis is treated<sup>8</sup> by combination† of estrogen, drogen and vitamin C, togeth with thyroid 0.5 to 2.0 grain daily and vitamin B.

The patient should not enga in any activity that induces pa for pain is the alarm signal noxious impulses that cause teoporosis. When recalcificat by prolotherapy has streng ened the "weld" of ligament bone (Fig. 2) and pain is longer felt, exercises may gradually increased to stimul normal bone and soft tissue tabolism.

#### **Illustrative Case Report**

History: The patient, a heal \*Sylnasok®, G. D. Searle & Co., Chicago, I \*Formatrix®, Ayerst Laboratories, New In

N. Y. N. 1. 6. Compere, E. L., & Kernahan, W. T., M. Clin. North America, 42:299-307,1958. 7. Hvid, N., Saertryk Ugesk. Laeger, 121, side 619-622, Denmark, 1959. 8. Seidel, H., Maryland M.J., 6:11-692,185

#### FIGURE 2

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Results of Prolotherapy in Case Reported. Note Recalcification of Relaxed Sacroiliac Ligament and Gluteal Tendon Attachments to Osteoporotic Bone.





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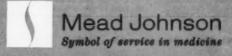
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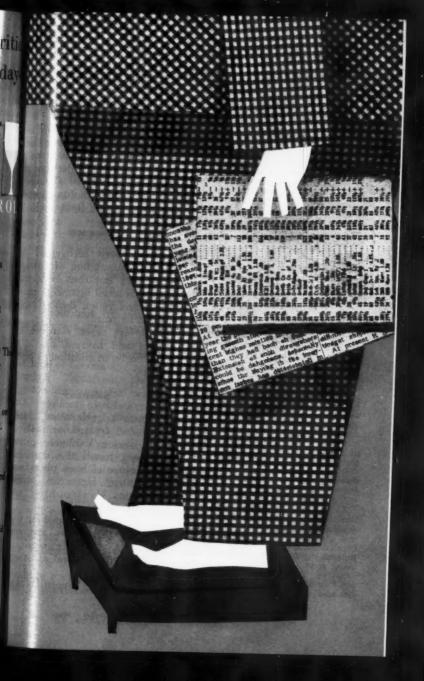
Each 8 fluid ounce can, a delicious, ready-to-drink 225-calorie me Available in Chocolate, Vanille, and Butterscotch flavors.

#### references:

(1) Antos, R. J.: The Use of a New Dietary Product (Metrecal) For Weight Reduction, Southwestern Med. 40:695-697 (Nov.) 1959. (2) Tullis, I. F.: Initial Experience with a Simple Weight Control Formula, to be published.

(3) Roberts, H. J.: Effective Long-Term Weight Reduction—Experiences With Metrecal, to be published.





nurse of 23 (the loose-jointed, inadequate osteogenetic type) gave a history of injury of the left low back four months previous while lifting a pa-tient. Though x-rays were negative, left sciatica had developed a month later while she was hospitalized in traction.

Examination: Walked with two assistants; list. Trigger-point tenderness of left sacroiliac ligaments confirmed by needling. Sciatica; left calf 1/2 inch reduction; reflexes normal.

Treatment and Progress: therapy of left sacroiliac, sacrospinus and sacrotuberus ligaments; analgesics; Camp-Hackett sacroiliac belt; crutches. Three weeks later local and sciatic pain had much improved, but fell on crutches sprained the (apparently decalcified) left iliolumbar, lumbosacral, interspinus (L-3-4-5) and hip ligaments and all the left gluteal tendons. After six weeks' observation these were also treated by prolotherapy.

X-rays taken three months later revealed decalcification of left ilium, ischium and femur but recalcification of left sacroiliac (treated) area. X-rays revealed increase of same.

Over a period of 12 months she received three to five prolotherapy treatments in each of lumbar interspinus (L-3-4-5), left ilio-lumbar, sacroiliac, sacrospinus and tuberus, and hip articular ligaments, and tendons throughout all left gluteal muscles. She was then free of all pelvic pain and tenderness, but was weak and unsteady from muscle degeneration and ligament/tendon relaxation associated with osteoporosis from left buttock to foot, and walking on crutches.

X-rays taken one month after the last treatment revealed abundant recalcification of left sacroiliac ligament and gluteal tendon attachments but decalcification from lumbar articular processes to foot on left side. She was using cane and gradually increasing activities. Two months later thyroid and a combination of estrogen, androgen and vitamin C were prescribed.

She now swims, runs, dances, chi stairs, rides bicycle, is taking coll graduate nurses' training, and is a fident of full recovery. X-rays re slight recalcification throughout.

If the sacroiliac joints had be s, bound early by the Camp-Har og ett sacroiliac belt and one two prolotherapy injections gi en she should have obtained permanent cure in 6 to 12 week while continuing light work.

Comment

It has been recognized the exious stimulation of barranded noxious stimulation of barrage of sensory impulses from tradigition on relaxed ligaments caused direct and reflex decalcification as well as pain.

In severe cases, estrogen, and drogen and thyroid should be given early, in addition to prob therapy.

#### Summary

nosed and treated in 1847 poor tients during a 20-year period of has been found the quent cause of back pain, beinge the inciting factor in various is syndromes, dystrophies, and causalgic states.

Diagnosis is indicated by trig ger-point tenderness and confirmed by intraligamentous needling with a local anesthetic solution.

Treatment by prolotherapy

s, clarengtlens the weld of ligament bone by recalcification, elimistre ates the noxious barrages of imulses of pain and the osteoporod be s, and permits gradual increas--Har ng of exercise to stimulate nor-

mal bone metabolism.

Estrogen, androgen, vitamins B and C, and thyroid have been found to be increasingly beneficial in each decade of life after the second.

### ined Tear Gas Burns

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rk.

weel Examination of a patient hositalized 12 hours after he had een shot in the face at close ange with a pocket tear gas gun isclosed vesication and marked dema of the skin, with generaldema of the skin, with generalto the ski hamber. Treatment included igorous measures for relief of ain, frequent instillation of a dia teroid, and injection of hyalu-7 paronidase into the upper lids. The eriod eft eye cleared promptly, but fre blindness and increasing pain nebeing essitated enucleation of the rion right eye 57 days after injury.

and Another patient, shot in the ace with a tear gas gun at a dis-trig ance of "about 1 foot," was hos-constitutized 44 hours later with setous ere chemical irritation about helical he muzzle of the face and burns avolving conjunctivae and corleas. Improvement under treatment with narcotics and sedatives, mydriasis, and frequent instillation of a steroid was slow but satisfactory, the patient being released in 9 days, subjective complaints being reduced to severe photophobia and blurring of vision in the light by the 39th day, and there being no demonstrable evidence of damage at the end of 152 days.

Burns in these patients showed that tear gas, commonly regarded as temporarily incapacitating but harmless, can cause serious and destructive injury. chemical generally used for making these weapons in this country appears to be chloracetophenone. Although sodium sulfite in glycerin and water has been recommended as a specific, its trial in an earlier case caused such pain that it had to be discontinued. Ocular bandages are contraindicated, castor oil and dark glasses being recommended instead. Vigorous therapy with a topical steroid, started as soon as possible, seems of great value. Oaks, L. W., et al., A.M.A. Arch. Ophth., 63:

benzthiazide

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### ancer of the Prostate: Hormonal Therapy Versus Radical Excision

ROBERT LICH, JR., M.D.,\* Louisville, Kentucky

Biopsy is invaluable in the early ingnosis of this condition. Radical argery permits an approximate 50 or cent cure rate, whereas estromic therapy offers only palliation. outine prostatic examinations hould be made in all men over 45, and every nodule should be suspectand histologically examined.

Cancer of the prostate is in any ways unique among the alignant tumors of the human. s potential of devastation is inersely proportional to the age the patient. And in the very ged its microscopic incidence is irtually universal, but by then he disease has been shorn of its thality. Furthermore, hormoncontrol of this cancer can so xceed expectations that the unvary physician may wonder as curability by hormones. Howver, cure is only the reward of adical prostatic surgery.

Professor and Chairman of the Section on Urology, Department of Surgery, University of Louisville School of Medicine rad before the Sectional Meeting of the American College of Surgeons, held at Louisville, January 21, 1960.

## Various Therapeutic Measures and Methods

It is my purpose to outline the place of surgery and the role of hormonal therapy in the treatment of prostatic cancer. Of isotopes it may be said that present-day isotope therapy in prostatic cancer has found a place somewhere between the results of radical surgery and palliative hormonal therapy, and its effectiveness is enhanced by the simultaneous exhibition of surgery, hormonal alteration, or both.

The cure of cancer of the prostate is attributed to radical surgery, but early diagnosis is the determining factor. Early diagnosis must be defined as diagnosis before the appearance of symptomatic prostatic enlargement. The prostate with a single discrete intra-capsular nodule is potentially curable by the removal of the prostate including its capsule and the seminal ve-

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# Analgesic potency as great as morphine without drowsiness or hypnosis\*



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Preferred agent for specific situations — Alvodine is especially well suited in postoperative analgesia because it permits most patients to remain alert and at the same time free from pain. The risk of postoperative pulmonary hypostasis and venous stagnation is decreased because the use of Alvodine allows patients to be mobilized sooner.

Alvodine is ideal for ambulatory and semiambulatory patients who are in need of strong analgesia. Patients with cancer remain alert and can often carry on their normal daily activities when freed of pain by oral doses of Alvodine.

Dosage: Orally, from 25 to 50 mg. every four to six hours as required. By subcutaneous or intramuscular injection, from 10 to 20 mg. every four hours as required. How Supplied: Alvodine tablets, 50 mg., scored. Alvodine ampuls, 1 cc., containing 20 mp. per cc. Narcotic Blank Required. Write for Alvodine brochure containing detailed information on clinical experience, addiction liability, side effects and precautions.

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ides. There is some disagreeent concerning the method of
dical surgery; in my opinion
be retropubic approach alone
fords the advantage of unampered visual dissection of the
eminal vesicles.

The key to success then is gly diagnosis, and this can only e accomplished by an ever oser union between the physiian and the urologist. To detect nodule in the prostate requires oms do not exist, nor will they oth inoperable and incurable. Then the nodule is found by alpation, the patient must be tudied further. The nodule nust be histologically differenlated from fibrosis and prostatic alculous disease. This requires prostatic biopsy.

#### Value of the Biopsy

Biopsy may be accomplished the yeither a surgical perineal extension of the prostate, though few have advocated a transferent spicious tissue percutaneous-perineal. The perineal exposure reates a wound and with the isturbance of the perineal exposure is of the perineal exposure is the perineal exposure is the perineal exposure is the perineal exposure is the perineal exposure. The perineal exposure is the perineal exposure is not without risk of the perineal exposure. The perineal exposure is not without risk of the perineal exposure. The perineal exposure is not without risk of the perineal exposure is not without risk of the perineal exposure. The perineal exposure is not without risk of the perineal exposure is not without risk of the perineal exposure.

sure that it is cancer before one undertakes a radical prostatectomy with its resultant impotence. To find later that the suspicious gland was but the aftermath of prostatic infection with fibrosis may place the wellmeaning physician in a vulnerable position.

#### **Biopsy Technique**

If a needle is used it must be with studied patience and under anesthesia to gain perineal muscle relaxation. Above all the needle must retrieve with unfailing precision the tissue toward which it is aimed. Without this accuracy it is no more useful than an erratic gun and equally as dangerous. We have employed our slightly changed Franklin modification of the Vim-Silverman needle for several years. with outstanding success. This modification only reduced the prong length beyond the needle point to afford rigidity, accuracy and larger biopsy specimen.

#### Radical Surgery

If the nodule in the movable non-fixed prostate is found carcinomatous on histological study the therapeutic path is clear. A radical prostatectomy should be performed with or without orchiectomy, depending upon the temperament and training of the urologist modified only by the egoism of the patient. Morbidity



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SUPPLY: Plastic atomizer of 15 cc. for administration by either spray or drop. References: 1. Personal Communication to Eaton Laboratories, 1959. 2. Spencer, J. T., in Conn, H. F.: Current Therapy 1954, Philadelphia, W. B. Saunders Co., 1954, p. 130.

\*antibiotic-resistant staphylococci

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this procedure should be no reater than that of a conservave prostatectomy, the mortality istinctly less than 5 per cent, and an anticipated cure of 50 per ent. At first glance this does not ppear to be a very high cure ate, but when one considers that he 10-year life expectancy for nales of this age group is but 53 er cent, it materially alters the pparent effectiveness of radical rostatectomy. On the other and, the carcinomatous prostate ausing symptoms is usually inurable.

### Relief and Palliation

If the prostate is fixed in the pelvis, the cancer has extended a, behind and beyond the semial vesicles, and usually the pelic and lumbar spine may have seen invaded. Palliation and ymptomatic relief is here our ally opportunity. The patient may have urinary retention of a variable degree and he may be uffering pain from bone invaion. If urinary retention is marked or complete it may be eccessary to remove some of the available prostatic tissue per rethreum. Or, if the urinary instruction is not great the coniomitant reduction in size of the mostate with hormonal therapy may relieve the patient of these distructive symptoms as well as its bone pain. The almost immediate comfort that many of these

patients experience is often startling, as well as most gratifying, to both patient and physician.

### **Hormonal Influence Is Temporary**

During this period of alleviation afforded by anti-androgenic therapy, the metastatic tumor and particularly the primary growth may show histologically much destruction. Unfortunately, this period of hormonal influence on the growth economy is not permanent and after a variable period the tumor achieves independence of hormonal influences, and tumor progression occurs in spite of androgen deprivation. This phenomenon of hormonal independence demonstrated after it was found that, after eight generations, prostatic carcinoma transplanted into laboratory animals retained its autonomy, and was independent of both androgenic and estrogenic influence.1 And still, in spite of this change in biochemical influence, the cancer cell did not change morphologically. These studies would suggest that the cancer cell is autonomous from the outset, that its lethal activity is but interrupted for a variable period, until it can make the necessary metabolic adjustments to continue its predetermined course. It is this work that explains the reason for the inability of hormonal therapy to effect a

<sup>1.</sup> Deming, C. L., J. Urol., 61:281,1949.

A "localized capillary syndrome, associated with hemorrhage... actually serves to signal the threat of abortion."

Correction of abnormal capillary fragility "decreases the possibility of retroplacental hemorrhage, or enhances the efficacy of established therapeutic regimes."<sup>4</sup>

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in each capsule 200 mg. of citrus bioflavonoid compound and 20 of ascorbic acid.

references: 1. Taylor, F. A.: West. J. Sur. & & Gynec. 64:280, 1956. 2. Alnslie, W. N.: & Gynec. 13:185, 1959. 3. Pearse, N. A. Trisler, J. D.: Clin. Med. 4:1081, 1897. 4 blatt, H. B.: Obstet. & Gynec. 2:530, 1831

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ton-Funk Laboratories, division ast 43rd Street, New York 17, New York permanent cure of prostatic cancer.

### **Estrogens Plus Castration?**

The much discussed question as to whether estrogenic therapy should be combined with castration at the time of diagnosis of prostatic cancer has not been answered to the satisfaction of all. A study of 818 cases by the American Urosurgical Society<sup>2</sup> for a five-year period vielded some interesting statistics. Prior to the use of estrogen 9 per cent of the patients survived for 5 years, as compared to 18 per cent when estrogenic therapy was used alone. On the other hand, if castration was used alone the 5-year survivals rose to 26 per cent, and if both castration and estrogen were employed the 5-year survival rose to 36 per cent. It was further brought to light that if the acid phosphatase of the blood was normal at the time of diagnosis the number of patients surviving for 5 years was 62 per cent, as compared to 36 per cent survival in the group in which acid phosphatase was found elevated.

### Estrogens Now and Castration Later?

The urologists who advocate estrogenic therapy alone until its effectiveness is lost, reserve orchiectomy as a means of pn viding an additional period of fair comfort for the patient. Su vival may not be as long, but is felt that the total period of pa tient comfort is extended.

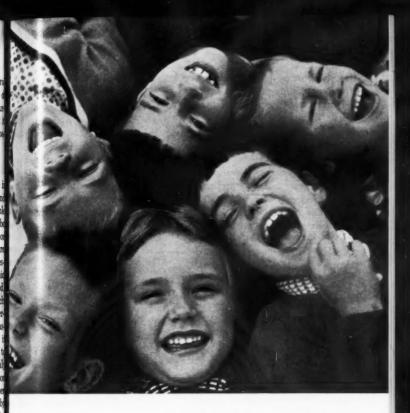
### Inoperable Cancer

Another therapeutic dispute whether or not the patient found with asymptomatic inoperable cancer of the prostate should be promptly placed on estrogen of orchiectomized, or both. Then are those who feel that, since & trogenic or reduced androgenic effect is but for a variable period it should be reserved until sud time as symptoms develop refer able to the prostate or to metas tases. As to all of these points i is difficult, if not impossible, to arrive at a definite answer. Only through a continued observation lies the solution and even the the picture may be clouded by variables, or at least difficulties of measurement and evaluation

### Other Measures

In view of the inevitable ultimate failure of estrogenic therapy and orchiectomy, other measures have been investigated in an effort to extend palliation. Adrenalectomy and hypophysectomy were clinically disappointing and did not afford the relief anticipated by inhibiting the production of adrenocorticotropic hormone. A clinically sim

Huggins, C., & Hodges, C. V., J. Urol., 1: 293,1941.



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In a recent survey of nearly 700 children, over 2 to 1 expressed their preference for Vi-Sol Chewable Vitamins over the other leading chewable vitamin tablets. Frankly, we're quite surprised over those who filed the minority report. From past experience, we thought that all children over 2 preferred delicious, fruit-flavored Vi-Sol Chewable Vitamins.

### Chewable Vitamins

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ilar response accompanied the use of cortisone provided at least 100 mg. was used daily since a lesser dosage did not lower the level of urinary "androgen" metabolites. Symptomatic relief may be experienced for a limited time, but there is no demonstrable change in the metastatic bony lesions.<sup>3</sup>

### Management of Cutaneous Hemangiomas in Infancy

These growths (also called strawberry nevus, strawberry hemangioma, or cavernous hemangioma) may be cutaneous, subcutaneous, or mixed. They usually appear at one or 2 weeks of age and grow rapidly for from 6 to 8 months.

In a 7-year study of 76 children with 92 strawberry nevi that were left untreated, growth always ceased by age 8 months and either no trace or merely a few flecks remained at 5 years, except in the case of very large tumors which required additional years for complete absorption. It was concluded that those which do not grow actively during infancy are not likely to retrogress on their own.

Application of dry ice, injection of sclerosing solutions, and ligation of the nutrient artery

### Summary

The problem of conquein prostatic carcinoma rests up early diagnosis which can on be accomplished by routine prostatic examinations in men by yound the age of 45 years. Even nodule must be regarded with suspicion and subjected to his tologic examination. Without early accurate diagnosis we are helpless in the effective treament of prostatic cancer.

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have been widely used. There no proof that these methods a superior to no treatment at a Excisional surgery has been en ployed at times, but no one has considered it a reasonable routine procedure.

No mode of treating this to more has been demonstrated simprove its ultimate prognosi Exposure to ionizing radiated during infancy apparently is creases the risk of acute leuk mia, thyroid cancer, and perhapother malignant conditions in its er life. Measures (e.g., administration of antibiotics) should be taken to minimize irritation apprevent infection. If therapy required, an effort should is made to design studies to evaluate its efficacy.

Kirkland, K., Modern Trends in Urology. Edited by E. W. Riches, Paul B. Hoeber, Inc., 1953.

Pinkel, D., New York J. Med., 60:1461-16 1960.

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# hyn strypsin Therapy of Bronchial Asthma

SAMUEL J. TAUB, M.D., F.A.C.P.,\* Chicago, Illinois

Good t excellent response was obined in 78 (88.6 per cent) of 88 ildren and adults treated. Respirary discomfort was favorably inunced by the anti-inflammatory tion of the agent, and liquefaction thickened bronchial secretions ocrred. No side effects were obrved.

This chronic allergic disease, ith its dyspnea, cough and heezing, and the production of ick tenacious sputum, has nong its many causes inhalants, llens, molds, feathers, animal ir, foods and drugs. Endogeus infections caused by bactia and viruses are frequent mplications.

Administration of steroid ugs in the treatment of asthma a very popular procedure. Relts at first are quite dramatic; wever, after continued usage, mptoms are prone to reappear d become more difficult to con-bl¹ Undesirable side effects oc-

cur with all steroids if their administration is continued long enough. Adrenal insufficiency and/or adrenal cortical atrophy are hazards, particularly on long-term therapy. Also, it becomes difficult to discontinue the steroid drugs because in many cases a dependency has been established and larger doses must be used in order to control symptoms.

Iodides have been used for many years to liquefy thickened tenacious sputum and to help the patient cough up bronchial plugs. Unfortunately, there are some patients who develop a sensitivity to iodides and so their continued use becomes hazardous.

Predicated on the mucolytic and anti-inflammatory properties of the proteolytic enzyme chymotrypsin, my interest has been focused on the merits of such therapy in bronchial asthma. The basis of the present clinical report is a group of patients treated with the enzyme chymo-

of Medicine and Chairman, Departent of Allergic Diseases, Chicago Medical hool, Taub, S. J., et al., J. Allergy, 27:514-22,

TABLE 1 PARENTERAL THERAPY NUMBER OF IMPROVED NOT IMPR VED PATIENTS (GOOD TO EXCELLENT) Adults 28 24 12 Children 10 2 40 TOTALS 34 6 TABLE 2 ORAL THERAPY NUMBER OF IMPROVED PATIENTS (GOOD TO EXCELLENT) NOT IMPROVED Adults 36 33 3 Children 12 11 1 TOTALS 48 44 4 TABLE 3 COMBINED SUMMARY NUMBER OF IMPROVED PATIENTS (GOOD TO EXCELLENT) NOT IMPROVED Adults 64 7 Children 24 21 3 TOTALS 88 78 10

trypsin via either the parenteral or oral route.

### **Methods and Materials**

Of the 88 patients treated in this series, 64 were adults and 24 were children, the youngest being 10 years. Either an aqueous solution of chymotrypsin\* providing 5000 Armour units per cc., or an oral tablet† providing

50,000 Armour units of prote lytic activity per tablet was us meon nd o in this study. The parents form was administered intram 5% cularly, the patients receiving cc. (5000 A.U.), two or the qualtimes weekly. Those paties rom treated orally received two to seed it lets four times daily. Both for entire of therapy enabled the patient I. So bring up the mucus with great plain ease, thereby making breath plutted more comfortable. The resulting are summarized in Tables 1 to lesia

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<sup>\*</sup>Chymar® Aqueous, Armour Pharmaceutical Company, Kankakee, Illinois. †Chymoral™, Armour Pharmaceutical Com-

pany, Kankakee, Illinois.

### Discussion and Conclusions

Of the 88 patients, 78 (88.6 er cer) showed clinical impovement, suggesting that hymotopsin is a valuable aid in leg efaction of thickened ronchild secretions, and that its numerical informatory action favoromfort

The new oral enzyme tablets are great appeal because their ficacy parallels that of the inectable form, they are easy to dminister, and few or no side fects occur, even on prolonged herapy. Although allergic sensitivity to the parenteral form was of encountered in the 40 pa-

tients treated, this possibility must be kept in mind, since one is injecting a protein material.

Finally, this management does not preclude the simultaneous testing of the patient to eliminate offending food allergens and/or hyposensitization to other allergens.

The use of corticoid drugs as a first choice of treatment is to be condemned, because of the hazard of adrenal insufficiency and/or adrenal cortical atrophy, particularly on prolonged therapy. It would be wise to return to more fundamental methods in the management of bronchial asthma.

# se of Promethazine as a ocal Anesthetic

In 7 human volunteers the onet, degree, and duration of local nesthesia produced by subcuneous injections of procaine dof promethazine were comared. The anesthetic effect of 5% promethazine roughly qualed that of 1% procaine. To comethazine, 1.5 to 2.5%, was sed in 30 minor surgical internations, in amounts of 0.5 to 2.0 d. Satisfactory anesthesia was a btained in all cases when 2.5% buttons were used, including the lose requiring complete anestesia. Patients sensitive to pro-

caine tolerated promethazine well. No amounts larger than 2 cc. were given. A general sedative effect should be anticipated with larger doses.

Promethazine is a powerful local anesthetic, suitable particularly for patients with known or suspected sensitivity to drugs of the procaine group and for patients with a history of multiple drug intolerance. Injections must be given subcutaneously since intradermal application causes necrosis.

Kalz, F., & Fekete, Z., Canad. M.A.J., 82:833-834,1960.

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# Use of Imipramine in the Control of Depressive States

ELSE B. KRIS, M.D., and DAVID GERST, M.D., New York, New York

►This drug proved valuable in the treatment of 93 ambulatory patients who had been hospitalized for more severe psychotic symptoms. When depression was severe and suicidal tendencies were evident, action of the drug was not quick enough and use of electric shock therapy was recommended.

Control of depressive states by treatment with imipramine† was evaluated in 93 patients (76 women and 17 men) who prior to admission to an outpatient clinic had been hospitalized in state mental institutions.

### Group 1

After a period of satisfactory community adjustment, 17 women and five men showed symptoms of sudden recurrence of acute anxiety and depression. During their hospitalization,

they had been diagnosed as had ing either manic-depressive ps chosis, depressed type, or inw lutional psychosis of some typ In 40 per cent of these, sym toms were under good contr within three to five weeks after institution of imipramine the apy, 75 and 150 mg. daily. The apy was continued for sever weeks after remission of sym toms. The following case histo illustrates the results:

A man, aged 68, had been releasing from the hospital and had adjust well in the community until two yer ymp later when his wife had become acceptually ill. Although his wife recent ly ill. Although his wife recover within a few weeks, he became in the creasingly depressed and complain even of severe insomnia and anorexia. pramine was started immediately within 10 days he was cheerful, appetite had improved, and he longer complained of being fatigu The only persistent symptom wa mild insomnia. The addition of a more tranquilizer at bedtime was well be all at a day and resulted in control of a set insomnia. Therapy was discontinuated after 10 weeks and the patient has a distribution of the set of mained free of symptoms.

New Jersey.

<sup>\*</sup>Research Unit, New York State Department of Mental Hygiene, Aftercare Clinic, New † Tofranil®, Geigy Pharmaceuticals, Ardsley,

### Group 2

After being in the community or son a time, 21 patients (19 women and two men) who had been di gnosed as schizophrenic began of show recurrence of ymptons. Of these, 46 per cent were bought under control following reatment with 50 to 75 mg, of mipramine daily. When he remaining cases showed no mprovement, therapy was disponent with tranquilizing drugs ave good results.

### Group 3

Immediately upon return to he community, 22 patients (17 romen and five men) who had een diagnosed as schizophrenic howed constant anxiety and hild depression. They all seemed be afraid of not being able stay out of the hospital and howed difficulty in adjusting to he community and family life gain. In an attempt to control ymptoms and give these indiiduals a better start, imiprahine (25 to 50 mg. daily) was iven. Results were excellent in 4 per cent, with medication beg gradually discontinued after few weeks

An illustrative case was that of a oman, aged 27, with three young ildren. When first seen after rease from the hospital, she felt very neasy and was afraid she would not able to make a go of things. She it that the duties of taking care of

her household were too hard for her, and that she would not be able to reestablish a daily routine. The children made her very nervous and she was uneasy about asking her mother-inlaw to continue assisting with the children. Imipramine, 50 mg. daily, was prescribed. Within a few weeks, this patient showed excellent adjustment and had completely taken over the care of her household and children.

### Group 4

After their release from the hospital, 28 patients (23 women and five men) had returned to work but after a few days on the job, complained of being tired and concerned about being able to master the work. The addition of a morning dose of 25 to 50 mg. of imipramine to nighttime medication with a phenothiazine. which the patients received on a maintenance basis, enabled them to perform well at work without feeling undue fatigue. In most cases, imipramine was discontinued as soon as the patient had adjusted to the routine of his job.

### Side Effects

No severe side effects were noted in these patients. Some reported dryness of the mouth and occasionally increased perspiration. In one case there was slight tremor of the hands and in two cases medication was discontinued because patients seemed acutely disturbed under this therapy.

### Conclusions

The use of Tofranil, either alone or in combination with other tranquilizing drugs, proved valuable in treatment of ambulatory patients who had been hospitalized for more severe psychotic symptoms. H weve where depression was sever and suicidal tendenci s wer shown, it was found that Tofra nil was not quick enough in i effect and the use of electri shock therapy was rec mmen ed.◀

### Mouth-to-Mask Resuscitation

Mouth-to-mouth resuscitation has been shown to be superior and better controlled than have been manual methods. The objections to this method are largely met by a mouth-to-mask technique. With this technique the first 300 cc. of air with which the victim is ventilated is atmospheric, since the operator previously inspired atmospheric air through the tube. Overinflation is prevented by a pressure relief valve, set for 24 mm. Hg. There is no rebreathing of the victim's air by the operator, since he rebreaths the last 300 cc. of his previously exhaled air mixed with atmospheric air coming through the inlet valve.

The volume of air entering and leaving the valve (one end of the valve being attached to a recording spirometer and the other to a gas-flow meter) is measured with use of variations of rate and depth of breathing and by addition of resistance to the spirometer. The operator's

expired air is collected and the mean CO2 and O2 concentration Bot analyzed to determine the con centration of these gases the via utis tim would receive.

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hang Advantages of mouth-to-ma nly resuscitation are its simplicit DY, safety and efficiency. Conta eactio d by with the victim is avoided, the minimizing danger of infection Significant hyperventilation odes the operator is prevented by f the rebreathing the small portion ell expired air remaining in the rva suscitator tubing. The concentr erip tion of O, entering the victing lungs is adequate, and that he s tic CO2 is low. An adapter placed the inhalation inlet permits hile suscitation with 100% O2 for bent a demand or continuous for stre system when O2 is needed at ve. available. This form of resust tation is also useful as a shot term assister in the ventilating For of subjects in respiratory tress.

Tomashefski, J. F., & Oliver, T. K., J. J.A.M.A., 172:1888-1890,1960. erilia

# Use (f Nicotinic Acid-Glycine Mixture in Treatment of Peripheral Vascular Diseases

JOSEPH GOODGOLD, M.D., F.A.C.P., Brooklyn, New York

Both gents in the mixture conibuted to relief of vasospastic sympoms including postphlebitic pain,
it is mormorata, and Raynaud-like
hanges in the 40 patients treated.

If you and there were no untoward
tae actions of any consequence reportthat by this group.

Production of repeated epitodes of maximum vasodilation
if the limb vessels is one of the
ell accepted adjuncts in conervative management of many
eripheral vascular disorders.
the side reactions of sympathoditic agents are well known,
hile papaverine compounds fretrue lently cause gastrointestinal
for estress and are rather expen-

### **Material and Methods**

For the past six years, a mixre of nicotinic acid and glyne\* has been used successfully in the treatment of peripheral vascular diseases in hospital outpatient departments and in private practice. Of 40 patients treated, 20 representative cases are summarized in Table 1. Peripheral arteriosclerosis obliterans was the diagnosis in 14. The other cases included one each of the following disorders: postphlebitic syndrome, leg ulcer due to venostasis, chronic thrombophlebitis, thrombo-angiitis obliterans, and an ulcer of the stump in a diabetic amputee due to infarction of the skin.

All patients were given a preparation containing 2.25 Gm. glycine and 225 mg. nicotinic acid per tablespoonful, orally 3 to 4 times daily, in an individual dosage range of 1 teaspoonful to 1 tablespoonful. In this series of 40 cases, none was followed for less than two months, and all were observed during or through a winter season when complaints are usually greatest.

eriliquid 19 Lakeside Laboratories, Inc., Milaukee, Wisconsin.

TABLE 1

RESULTS OF TREATMENT WITH ORAL GLYCINE-NICOTINIC ACID IN PERIPHERAL VASCULAR DISEASES IN TWENTY PATI NTS

Number of Patients		RESPONSE TO THERAF	
	DIAGNOSIS	SATISFACTORY	UNSATISF TORY
14	Arteriosclerosis obliterans	11	3
1	Leg ulcer due to venostasis	3	1
1	Chronic thrombophlebitis	1	
1	Diabetic amputee stump pai	in 1	
2	Postphlebitic syndrome	2	
1	Thrombo-angiitis obliterans	1	
20	TOTALS	16	4

### Results

Thirty-two patients responded favorably, eight showing neither subjective nor objective improvement. Mensuration included comparative skin temperature studies and oscillometry in all patients, plethysmography being carried out in some. The most positive index of effectiveness was unsolicited favorable or apathetic comment of individual patients.

It was evident that both agents of the mixture contributed to the relief of vasospastic symptoms including postphlebitic pain, cutis marmorata, and Raynaud-like changes. The response of both venous and arterial lesions also reflected the success of repeated vasodilation.

### Discussion

In the conservative treatment of peripheral vascular diseases,

others1 have found that glycin Prod others' have found that glycin roothers' have found that glycin roothers' a definite adjunct to the conservative treatment of periphen Pavascular insufficiency." Its effect of sis based primarily on the specificies, dynamic action of the proteir room moiety to increase heat and en increase the production in the heather. ergy production in the bod hoc This heat is dissipated in talt extremities and in this mann zine peripheral blood flow is au een mented. 5 fe

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ortanc in relief of pain on ampulation Glycine, which affects superfic al and deeper vascular hannel, augments blood flow to he mucles of the limb and appears to produce relief of pain.

### Summary

A mi ture of nicotinic acid and

glycine was used in 40 patients with a variety of peripheral vascular disorders to effect repeated, prolonged episodes of dilation of vessels in the legs. Improvement was noted in 32 patients, eight showing no response. No untoward reactions of any consequence were noted.

### tse of Trifluoperazine and Discharge Planning Procedures in Psychotic Patient

Patients who had not respondented satisfactorily to other theractionies, including reserpine, chlorateiromazine, perphenazine, mepaerine, hydrotherapy, and electrodochock, were selected for a clinitial trial of trifluoperazine (Stelmozine). Of 51 patients, 20 had an een hospitalized under 5 years, 5 for 5 to 9 years, and 16 for over 10 years. Ages ranged from rea 7 to 68 years, 33 being in the did 0 to 40 group. The drug was diven orally starting with 2 mg. a times daily for 3 days, then 5 as mg. 3 times daily for 3 days, and he mally 10 mg. 3 times daily until periode effects appeared. For the rst 3 days the patients connection with trifluoperazine in 8 of the 51 patients, modified by 25 gm. of thiopental sodium

(Pentothal) and an average dose of 60 mg. of succinylcholine chloride (Anectine), with 1/50 grain atropine one hour before treatment. A step-by-step procedure of activities and privileges was instituted for those who showed significant improvement, preparing them gradually for convalescent discharge and eventual release.

As a result of this therapy and proper discharge planning, 32 of the 51 patients were discharged, most of them on convalescent leave, committal papers remaining effective in case further treatment was necessary. Of the 51 treated, 29 showed maximum, 18 moderate, and 4 minimum improvement. Trifluoperazine proved to be a superior antipsychotic agent.

Spicer, E. R., & Gysin, W. M., Nebraska M.J., 45:313-315,1960.

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## Propionyl Erythromycin Lauryl Sulfate in General Practice

EDWARD SETTEL, M.D., Forest Hills, New York

This preparation was tested in 102 patients suffering from a variety of acute and subacute infectious disorders. Compared with unmodified propionyl erythromycin, it gives somewhat more rapid control of infection and produces slightly fewer side effects. Adequate blood levels are quickly achieved.

In the treatment of infective conditions in general practice it is not always possible to select an appropriate antibiotic on the basis of prior identification of the infecting organism. The impossibility of providing constant attendance on the patient also makes the usage of parenteral preparations and early detection of untoward reactions more difficult than under hospital conditions. Manifestly, any antibiotic considered for more or less routine use in general practice should be broad in its spectrum of action, orally effective, sufficiently potent that improvement is well established within 48 to 72 hours, and largely free of undernotal sirable side actions.1 It is the epti purpose of this report to recomment the clinical results obtained with with propionyl erythromycin ester rece lauryl sulfatet in a cross-sectioning. of infectious disorders and to De evaluate them against the back ryt ground of these criteria. ecti

Erythromycin is an antibiotic base derived from the actinomyceteble, Streptomyces erythreus. It ion spectrum of activity is wide, emabso bracing most gram-positive bacon t teria, a number of gram-negative he bacilli, large viruses, Rickettsia 2.14 spirochetes, and some protozoa The instability of erythromycia 1.56 base in gastric juice, however, 1.6 made it impractical to administrate the drug by the oral route with the out the protection of an acid-re shall be shall sistant coating. In an effort to 9. A overcome this difficulty a number of esters were synthesized in s among which the propionyl ester

<sup>\*</sup>Medical Director, Forest Hills Nursing Home.

<sup>†</sup> Ilosone Lauryl Sulfate, Eli Lilly & Co., la

dianapolis, Indiana.

1. Settel, E., Antibiotic Med. & Clin. Theraps. H. C. 7:193,1960.

to hold particular This compound was and t be of low toxicity2 and prod ce a significantly higher nd lon er-sustained plasma levthan erythromycin base when dminis ered orally. 8-11 In clinal tries propionyl erythromyin was found by a number of bserve s to be highly effective range of infecwide ions.1,4 i,11-14 Side effects were nde totably infrequent with the exthe eption that in one14 gastroincon estinal intolerance was noted with with some frequency in patients stereceiving doses exceeding 250 tion ng.

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Despite the fact that propionyl ckerythromycin produces more efective plasma levels than the otic base it is nevertheless susceptiete ble, like the base, to disintegra-It ion by gastric juice. Its better embsorption has been explained paren the basis that on release from tive he capsule within the stomach it is resistant to wetting until it reaches the alkaline medium of the intestine.15 The use of the ester in suspension form, however, was still precluded by its liability to breakdown in gastric juice since such form necessarily involves wetting prior to ingestion. This particular difficulty appears to have been overcome by combining it with a strong acid, lauryl sulfuric acid, to form propionyl erythromycin lauryl sulfate which retains its potency even on prolonged exposure to gastric juice.15 Following entry into the intestine the lauryl sulfate radical detaches and the dissociated propionyl erythromycin ester becomes available for absorption. Investigation of this modified form of the drug revealed that blood levels achieved with the patient in the fasting state are as high as those obtained in the non-fasting state. 15 This finding is noteworthy insofar as the blood levels achieved with either erythromycin base or unmodified propionyl erythromycin ester are distinctly lower when they are administered with food than when given in the fasting state.16

Pharmacologic study indicates that the toxicity of propionyl erythromycin lauryl sulfate is no greater than that of the un-

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sia C., et al., Antibiotics Annual 1958-1959, Medical Encyclopedia Inc., New York, oa 1959, p. 354. cin J. Stephens, V. C., & Conine, J. W., ibid., p.

<sup>346.</sup> er.

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<sup>136.</sup> Griffith, R. S., et al., Antibiotics & Chemo-therapy, 5:609-1958. Griffith, R. S., op. cit., p. 364. 6 Perry, D. M., et al., ibid., p. 375. Kunin, C. M., et al., ibid., p. 382. Klirich, H. A., et al., New England J. Med., 260-408-1959.

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<sup>200:408.1959.</sup>Albright, J. G., & Hall, W. H., Antibiotics & Chemotherapy, 6:283,1959.

Perry, D. M., et al., Antibiotics & Chemotherapy, 6:347,1959.

Lalitak, S., et al., Antibiotics Annual 1959-1960, Medical Encyclopedia Inc., New York, 1964.

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Stephens, V. C., et al., J. Am. Pharm. Assoc., 48:620,1959.
 Hirach, H. A., & Finland, M., Am. J.M. Sc., 237:693,1959.

TABLE 1 CLINICAL RESULTS IN 102 PATIENTS TREATED WITH PROPIONYL ERYTHROMYCIN LAURYL SULFATE

	NUMBER OF	RESPONSE	
NATURE OF INFECTION	PATIENTS	EFFECTIVE	UNSATISF CTORY
RESPIRATORY INFECTIONS:			
Acute follicular tonsillitis	25	25	0
Acute upper respiratory infecti	on 18	18	0
Acute tracheobronchitis	11	10	1
Acute viral pneumonia	6	5	1
Acute cervical adenitis	5	5 5 4 3 2	0
Acute sinusitis	4	4	0
Acute bronchopneumonia	3	3	0
Acute nasopharyngitis	2	2	0
Acute otitis media	1	1	0
TOTAL	75	73	2
SOFT TISSUE:			
Acute furunculosis	8	8	0
Paronychia	3	3	0
Impetigo contagiosum	1	1	0
Cellulitis (human bite)	1	1	0
TOTAL	13	13	0
GENITOURINARY INFECTIONS:			
Acute pyelitis	3	3	0
Acute cystopyelitis	2	1	1
TOTAL	5	4	1
MISCELLANEOUS:		-	-
Acute enteritis	5	4	1
Abscessed tooth	2	2	0
Acute diverticulitis	1	1	0
Acute suppurative conjunctiviti	s 1	1	0
TOTAL	9	8	1

modified ester17 which experience has shown is one of the better-tolerated antibiotics. In the clinic the lauryl sulfate modification given in liquid form to infants and children has furnished very satisfactory blood levels,11,12,18 with good tolerance and satisfactory clinical effects in the treatment of streptococcal

and other infections. 12,18

In view of these findings at ision previous experience with us and 3 modified erythromycin propio ener ate, a further study was inst there tuted to determine whether the nen, lauryl sulfate form holds any de 1 ye tinct advantage for use in gener cute al practice.

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### Method of Investigation

A total of 102 patients wa and g subjected to study. Of these, a tudy

Anderson, R. C., et al., J. Am. Pharm. A., 48:623,1959.
 Reichelderfer, T. E., et al., Antibiotics Annual 1959-1960, Medical Encyclopedia Inc., New York, 1960, p. 899.

Table 2

BACTERIOLOGIC RESPONSE TO
PROPIONYL ERYTHROMYCIN LAURYL SULFATE IN 93 CASES

INFECTING ORGANISM	NUMBER OF PATIENTS	NUMBER CURED BACTERIOLOGICALLY
RESPI ATORY INFECTIONS:		
Str p., hemolytic	22	22
Street, non-hemolytic	18	17
Sta h. aureus	11	11
Pne amococcus	1	1
Mined gram-pos. and gram-neg. Mined viral (diagnosis by exclusion	10	10
plus clin. findings)	10	9
TOTAL	72	70
SOFT CISSUE INFECTIONS:		
Stanh, albus	8	8 3
Staph. aureus	8 3 1	3
Strep. hemolyticus	1	1
TOTAL	12	12
GENITOURINARY INFECTIONS:		
E. coli	8	2
Ps. aeruginosa	1	0
Staph. albus	1	1
TOTAL	4	3
MISCELLANEOUS INFECTIONS:		
Staph. albus	3	3
Shigella paradys.	1	1
Mixed viral	1	0
TOTAL	5	4

vere inmates of a well-staffed eriatric facility with ample prorision for constant observation, and 38 were drawn from a busy general practice in a large city. There were 56 women and 46 men, ranging in age from 42 to 1 years. All were suffering from the cute or subacute infections representing a cross section of the ypes of infectious illness commonly encountered in geriatric and general practice. Patients for tudy were selected at random

without regard to the nature of the infecting organism.

### Dosage

All patients were treated with propionyl erythromycin lauryl sulfate in the form of pulvules of 250 mg., or flavored suspension containing 25 mg. per ml. The usual dosage was 250 mg. every six hours continued until the patient had been afebrile for at least 36 hours. There was no requirement of an empty stom-

ach for administration of medication.

### Therapeutic Results

In assessing results clinical response was deemed effective only when temperature fell below 99° F. within 72 hours after therapy was initiated, and this fall was accompanied by clear-cut relief of other signs and symptoms of infection. All others were classified as unsatisfactory.

In general, the quantitive response (Table 1) was closely comparable to that previously reported for unmodified propionyl erythromycin.1 It was noted, however, that with the lauryl sulfate modification defervescence and resolution of acute symptoms occurred generally within 18 to 36 hours, whereas with the unmodified propionyl ester similar improvement occurred after 24 to 28 hours. This somewhat accelerated action suggests that the lauryl sulfate form is either absorbed more rapidly or more consistently maintains a bacteriostatic plasma concentration, than does the unmodified propionyl erythromycin.

In 93 cases it was possible to make a bacteriologic diagnosis. By comparing the therapeutic results (Table 2) with those obtained with propionyl erythromycin1 it becomes evident that the addition of the lauryl sulfate radical does not impair the broad spectrum of action of the pares 3.P1 antibiotic.

### Side Effects

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ionyl Side effects were in equen and never severe enoug to re quire discontinuance of herapy Two patients manifested some rthri mild abdominal cramps and nausea, and a third developed eratu diarrhea on the third day of ad ministration, after the tempera iquid ture had been normal for 1 ooth h hours. No skin rashes or other Solids allergic manifestations were Cod 1 noted. Although careful observa tion was maintained, no evidence of renal, hepatic, or hemopoieti en on damage was detected. The over all toxicity rate of less than nours per cent represents a slight im provement over that of 4.8 per pefor cent previously reported for pro and a pionyl erythromycin ester.1

### **Summary and Conclusions**

- 1. The efficacy of propiony rially erythromycin lauryl sulfate ha arthr been tested in 102 patients sul shake fering from a variety of acut ar ju and subacute infectious disor's co
- 2. The clinical results indicate any f that the addition of the laury Watesulfate radical enables somewhat single more rapid control of the infer before tion than is possible with up modified propionyl erythromy nen cin. Toxicity is slightly reduced and the spectrum of action retient mains unimpaired.

3. Propionyl erythromycin wryl ulfate holds a practical dvantage over unmodified proionyl cythromycin in that adequate blood levels are achieved in either the fasting or non-fasting state.◀

# New Detary Regimen for

This liet provides room tem-deratur whole milk and warm oup (1 ot creamed) as the only oup (1 of creamed) as the only iquids permitted with meals, to the ing allowed at any time. Solids are permitted any time. Solids are permitted any time. To colliver oil, mixed either with toz. of fresh, strained orange time or 1 oz. of cool milk, is taken on a fasting stomach at least four (preferably five or more) hours after the evening meal and agree breakfast upon agising pefore breakfast upon arising, and at least one-half hour after water intake. The cod liver oil-nilk mixture is preferable to the orange juice mixture espe-tially for advanced, sensitive arthritics. The mixtures are thaken well in a 2-oz. screw-top ar just before ingestion. There s complete exclusion of soft drinks, candy, cake, ice cream or any food containing white sugar. Water intake is restricted to a single portion taken one hour before breakfast.

The value of this dietary regimen was studied in a series of 8 arthritic or rheumatic patients. Over a period of six months 92 (93%) showed major

clinical improvement, 89 (90%) favorable changes blood in chemistry. Blood sedimentation rates dropped consistently from averages of 20 to 30 (Wintrobe) to normals of 0 to 12 within a period of eight to 18 weeks. Sedimentation rates were erratic in 16 cases during an outbreak of Asian influenza and also in cases of common cold, during which times water and juices were taken freely throughout the day.

Intravascular agglutination is constantly found in arthritis, a comparison of the normal and arthritic patterns indicating that sludged blood resulting from positive intravascular agglutination may be an etiological factor in this disease. Cod liver oil taken on a fasting stomach reduces blood sludging and helps relieve symptoms. Objective and subjective findings suggest that adherence to the prescibed diet regimen on a long-term basis may result in sustained clinical improvement.

Brusch, C. A., & Johnson, E. T., J. National M.A., 51:266-295,1959.

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# Use of a Preanesthetic Medication in 100 Surgical Patients

PAUL F. NORA, M.D., RICHARD GROSSMAN, N.D., \* and ARKELL M. VAUGHN, M.D., + Chicago, Illinois

► A non-barbiturate preanesthetic was administered orally to 100 surgical patients having various diagnoses and subjected to different anesthetic techniques. Ease of induction was noted and postanesthetic recovery remained unhampered. Side effects were not noted, nor were there any allergenic phenomena.

A non-barbiturate sedative, alpha-ethyl-alpha-phenyl-glutarimide, ## was evaluated as a preanesthetic medication in 100 consecutive surgical patients. This drug begins to act in 5 to 20 minutes after oral administration, and the duration of action is 4 to 6 hours.1 There have been no reports of undesirable hematopoietic, hepatic, or renal effects following its use; side effects have been minimal.

It has been found to be a saf satisfactory preoperativ sedative for cystoscopy.2 Th drug has been reported to be a effective therapeutic agent in the preoperative sedation of 75 m tients undergoing proctologic general surgery.3 It has been found to be a satisfactory preof erative sedative in 60 surgical pa ndue tients in whom opiates wer omitted entirely in the preoper ative regimen.4 With scopolar sc mine, with or without meper dine, it has been found to be a effective and safe preoperation medication for children.5

### Material and Method Employed

The sedative was administered to 100 consecutive surgical p tients. The dosage was 0.5 Gm orally, one hour and 15 minute prior to the induction of anesthe sia. Forty-five minutes prior

<sup>2.</sup> Burros, H. M., & Borromeo, V. H. J., Urol., 76:456,1956.

<sup>3.</sup> Hodge, J., et al., Am. J. Surg., 94:108,185 4. Logan, K. M., Clin. Med., 4:1221-1225;185 5. Branch, D. R., & Pastorello, R. R., M. England J. Med., 257:125-127,1957

<sup>\*</sup>Surgical Resident, Cook County Hospital. Surgical Resident, Cook County Hospital.

\*Clinical Professor of Surgery, Stritch School of
Medicine of Loyola University; Professor of
Surgery, Cook County Graduate School of
Medicine; Attending Surgeon, Cook County
Hospital; Senior Attending Surgeon, Mercy
Hospital, Chicago.

<sup>††</sup> Doriden®, Ciba Pharmaceutical Products, Inc., Summit, N. J. 1. Scharwachter, T., Medizinische, 50:1750,

<sup>1955.</sup> 

TABLE 1
TYPES OF OPERATIVE PROCEDURES

SURC CAL PROCEDURE	Number of Patients	
Leg imputation	15	
Herr a repair	30	
Parc idectomy	1	
Gast ostomy	1 2 5 2	
Skin graft	5	
Proc oscopy	2	
Lum par sympathectomy	15	
App ndectomy	1	
Lipe tomy	1	
Arterial graft	1 2 5 3 2 2 2 2	
Cole tomy closure	2	
Gastric resection	5	
Gastro-jejunostomy	3	
Abdominal perineal resection	2	
Left hemicolectomy	2	
Colestomy (transverse)	2	
Exploratory laparotomy	3	
Hiatal hernia	1	
Hemorrhoidectomy	6	
atting a save decidency		
TOTAL	100	

duction meperidine hydrochloe ide and either atropine sulfate
it r scopolamine were adminisered. All of the patients were
hales from 12 to 80 years of age.
They had all been given adeuate examination and were conidered to be safe risks for a denitive operative procedure.

A general anesthetic was adinistered to 28 patients; of lese, 26 were given cycloproane. Intravenous thiopentothal, upplemented by nitrous oxide, as given two patients; 2 per ent tetracaine hydrochloride, in dosage range of 6 to 12 mg., as used for spinal anesthesia in 66 patients; caudal anesthesia with one per cent lidocaine hydrochloride was given to 3 patients; and one patient had local anesthesia with injection of one per cent procaine hydrochloride.

The most common operative procedures performed were inguinal herniorrhaphy, lumbar sympathectomy, and supracondylar leg amputation, as shown in Table 1.

### Results

The sedative was evaluated in respect to two effects:

1. The state of mind of the pa-

TABLE 2

### CONDITION OF PATIENTS ON ARRIVAL IN OPERATING ROOM

CATEGORY	NUM ER OF PAT ENT
Asleep Drowsy	1   2
Awake but relaxed	£ 1
Anxious	1 1
Obstreperous	2

tient on arrival in the operating room was noted, and the patients were classified in 5 categories. as shown in Table 2.

2. The ease of induction of anesthesia was compared with the usual induction in patients premedicated with barbiturates. In the patients receiving a general anesthetic, the amount of anesthetic agent required to achieve the proper plane of anesthesia was noted, also, any difficulties encountered, such as excitement, and laryngospasm, and so forth, during this period. When an anesthetic other than general was used, the mental status of the patient was noted both during instillation of the anesthetic agent and during the operative procedure.

Of the 28 patients receiving a general anesthetic four had a smoother induction, 22 had the same, and two had a less smooth induction than with other types of premedication. Of the 66 patients who had spinal anesthesia six had a better mental state. 57

had the same, and three had less satisfactory state as com pared with other preamestheti Thi medications. No significant di 1.5 gr ference in total anesthetic receks. quirements was observed. Also hirds the postoperative status was no izulit significantly different with the sined non-barbiturate premedication with than with barbiturate premed heic cation. There was no evidence of any allergic phenomena tha As could be attributed to its use. ase

### Summary

lexi

non-barbiturate sedativ f tr was used as a preanesthetally : agent in 100 consecutive prectications undergoing various surface. cal procedures. No untowar ured side effects or sensitivity readion, tions were encountered. ama

The drug was found to profit the drug was found to profit duce a satisfactory tranquilizing esule effect on patients prior to sur rom gery. The majority of patient all me were awake but relaxed who etc. brought to the operating room et liance and the control of the control of

out difficulty in 89 per cent of 1. Poi the patients.

# Sulfa dimethoxine in Treatment of Acne and Other Pustular Dermatoses

CEDRIC C. CARPENTER, M.D., Summit and Morristown, New Jersey

the This sulfonamide, in dosages of the 15 gm. daily for an average of two recks, produced good results in two-less kirds of patients with acne and foliable the sulfits. No improvement was obtained in a small number of patients with eczematoid dermatitis, sebordia dermatitis, and pustular rosadia with eczematoits, and pustular rosadia with eczematoits.

As might be expected of a disase of such variety and comlexity as acne vulgaris, no form
it if treatment has proved generit if treatment has proved general has proved general

been and are still being investigated.

Because they are seldom implicated in development of bacterial resistance, some of the newer sulfonamides would seem to be preferred medication. One of these, sulfadimethoxine,\* was reported to control acne and other dermatologic conditions in 80 per cent of 44 patients.8 In a double blind study of 134 cases of acne vulgaris, sulfadimethoxine was effective in 55.97 per cent of patients, the drug and placebo equally effective in 16.42 per cent, and neither effective in 27.61 per cent.4 These results encouraged further investigation of sulfadimethoxidine's usefulness in treatment of acne and other pustular dermatoses.

### **Material and Method**

Sulfadimethoxine was admin-

<sup>\*</sup>Madribon®, Hoffmann-La Roche Inc., Nutley, New Jersey. 3. Levy, S. W., Ann. New York Acad. Sc., 82: 80,1959.

Cahn, M. M., & Levy, E. J., Ann. New York Acad. Sc., 82:84,1959.

istered to 40 patients, aged 14 to 75, with a variety of pustular dermatoses: 26 had acne vulgaris, nine folliculitis, one folliculitis and furunculosis, one infectious eczematoid dermatitis, two seborrheic dermatitis, and two pustular rosacea. The duration of illness ranged from three weeks to 13 years; more than half of the conditions had been present for one year or longer.

All but four patients had received one or more topical medications prior to present treatment, and 12 had failed to respond to previous autovaccines or antibiotics. Concurrent therapy employed in most cases included vitamin A, ultraviolet radiation, cortisone preparations, sulfur lotions or other topical ointments or creams, and fat-restricted diets.

The dosage of sulfadimethoxine was one 0.5 gm. tablet daily. and length of treatment varied from three to 30 days, the majority of patients receiving the drug for a period of two weeks.

### Results

Improvement of 50 to 75 per cent was noted in nine patients and 75 per cent or better in 15. improvement rate for the group being 59 per cent of 41 cases (one patient is counted twice because of improvement, recurrence in six months, and then greater improvement). No improvement was obtained in sph five patients with infectic uses 2. O matoid dermatitis, selvorm 0 of dermatitis, and pustular cosate sh Thus if the figures are limited per acne and folliculitis, or to a har alone, good results were grap served in two-thirds of the second tients, counting as failures used in two could not be follow the except for one report of indianary Except for one report of indigetrav tion that may or may not he been due to the drug, no verse reactions occurred in a 1.0 of the patients.

### Discussion

Su

vo c

Co

Where adjuvant therapies employed, as they must be most skin conditions, it is course impossible to state what degree the basic media tion is responsible for whatev favorable results are obtained or even that any one aspect the regimen is in itself bas Nevertheless, a two-thirds it provement rate in acne with use of sulfadimethoxine will I recognized as a worth-while achievement. The rate may ha been somewhat higher because six patients (three with acre were not followed. Further, profien vious systemic medication with value one or more local adjuvants have failed in 12 patients: autovaccin he two, tetracycline six, chlorteta ep cycline hydrochloride one, en ion thromycin one, tetracyclin

in tophi te and chloramphenicol set to the sulfadimethoxine, only or of these failed to respond, osat eshe wing an improvement of ited per cent or better.

An a ided advantage of acne e terapy with this drug is that no let se of photosensitivity to the set up has occurred either with own tural sunlight or concomitant dig travic let light therapy.

### Suramary and Conclusions

1.0f 40 patients (one given o courses of therapy) receivsulfadimethoxine 0.5 gm. ily for an average of two Cahn, M. M., & Levy, E. J., Clin. Med., In

weeks for pustular dermatoses, 24 improved, 11 failed to improve, and there was no followup in six.

- 2. One complaint of indigestion may have been attributable to the drug. There were no other side effects or adverse reactions.
- 3. While the indications in this series were not sufficiently diverse to permit a broad dermatologic generalization, judging from the two-thirds improvement rate in acne vulgaris and folliculitis, it would appear that sulfadimethoxine is an effective systemic agent in the control of these two disorders.

### angrene Due to Therapeutic ine ose of Ergotamine

ev

Contraindications to adminisation of liquid ergot or ergotmine tartrate include peripheravascular disease, hypertension. oronary disease. pregnancy, hyrotoxicoses, gross spesis, heptic and renal disease, and anenia. Serious ergotism in a palient of 45 who received normalwaccepted therapeutic doses of rgotamine and who had none of he known contraindications is eported. Symptoms included omiting, severe cramplike pains all 4 limbs, coldness, general malaise, and an extremely red face. She had taken a total of seven 1 mg. tablets of ergotamine tartrate in 3 days to relieve menorrhagia. Her legs and feet became gangrenous on the sixth day and her thumb and index finger (right hand) on the tenth day. She was transferred for amputation on the sixteenth day. Spasm of the limb vessels had been so severe that no vasodilator drugs could reach the affected sites.

Cameron, E. A., & French, E. B., Brit. M.J., 2:28-30,1960.

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# Dichlorisone Therapy in Corticoid-Responsive Dermatoses

M. MURRAY NIERMAN, M.D., Calumet City, Illi 10is

Following applications three or four times daily, this produced favorable responses in the majority of 1097 patients with dermatoses generally responsive to topical corticosteroid treatment. The only side effect observed was excessive drying in five patients, or in 0.46 per cent of those treated.

Dichlorisone,† a new corticosteroid, differs significantly from previous adrenocortical steroids in that it is the first such drug which has proved effective on topical application but which has no clinically significant activity following systemic administration. When dichlorisone was given orally, in daily dosages ranging from 60 to 200 mg., to patients who previously had been on maintenance therapy with various systemic corticosteroids, relapses occurred in all instances.1 Thus, dichlorisone may

be the first "external" stem i.e., a steroid with primarily to cal activity.

### Materials and Methods

Dichlorisone was used, in salte eral forms,\* in 1097 patie re with a variety of dermator loris generally responsive to tre cle ment with topical corticostero a n Different conditions treated w epar d various dichlorisone prepa tions included contact dermi niev tis, seborrheic dermatitis of face, rosacea, acute inflammese tory acne vulgaris, psoriasis ents the face, impetigo, herpes and ter, nummular eczema, postmabrasion inflammation. omy dyshidrosis.

Patients were instructed The apply dichlorisone three or

<sup>\*</sup>Department of Dermatology, Chicago Medical

Diloderm, Schering Corporation, Bloomfield, New Jersey. 1. Hawkins, G. K., Personal communication.

<sup>\*</sup>Dichlorisone Foam Aerosol, 18.75 mgm. container; Dichlorisone Cream, tbichlorisone Aerosol, 8.35 mg./50 gm. tainer; Dichlorisone with Neomycin i 18.75 mg. dichlorisone and 37.5 mg. mycin sulfate/10 gm. container; Did ists esse sone with Neomycin Cream 0.25%; and chlorisone with Neomycin Aerosol, 8.33 dichlorisone and 16.6 mg. neomycin dichlorisone and 16.6 fate/50 gm. container. Res

les daily. Dichlorisone was the ly me dication given, except in mall number of extremely see c ses requiring systemic ticos eroids, and in the acne oup of patients in whom a gimer combining dichlorisone th leratolytic and drying ents was used. Patients with ne vulgaris were instructed to ply one of these keratolytic d dring agents until an inen mma ory reaction occurred; at time, they were told to anse the affected area with a and soap and to apply dichlorise foam aerosol. Those with a suite inflammatory acne vulgarise re initially treated with district orisone foam applied following cleansing with a bland soap.

We sparations were employed affected with lorisone therapy, had dichlorisone therapy had maked a good improvement of the inflammatory reaction; in the patients the keratolytic is ents were then applied on the patients with pustular acnes are given dichlorisone with re given dichlorisone with omycin foam.

The patients with impetigo for instructed to apply dichloone following removal of the lists with boric acid com-

### Results

Response to dichlorisone ther-

apy was good in all of the 1097 patients with conditions generally responsive to topical corticosteroid therapy; that is, in the majority of cases the therapeutic results were as good as those expected with available topical steroids, while in some cases they were superior. The most striking feature of dichlorisone appears to be the almost total absence of local irritation, even with the forms containing neomycin, where a certain degree of local sensitization might be expected. The only local irritation observed in this series consisted of excessive drying in five cases, an incidence of 0.46%. There were no systemic side effects and no clinical evidences of systemic activity of the drug.

The cosmetic elegance of the dichlorisone foam preparations is a definite advantage to patients whose occupations require them to have contact with oth-The dichlorisone aerosol preparation proved highly effective particularly in exudative lesions with a tendency towards vesiculation, weeping and crusting; while the active ingredient exerts its anti-inflammatory effect, the spray acts as a drying agent in cases in which creams or ointments would favor vesiculation. The cooling effect of the freon included in the preparation afforded prompt relief of itching.

An interesting side observation was that dichlorisone with neomycin aerosol elicited particularly favorable results in patients with contact dermatitis due to deodorants. In these cases, the dichlorisone-neomycin combination provided the required anti-inflammatory and anti-infective effects, while the spray acted as a drying agent and thus helped avoid further irritation from perspiration. This afforded the patients a method of treatment which in addition to its therapeutic effectiveness had an aesthetic value. Many patients who could not tolerate deodorants asked to be continued on dichlorisone with neomycin aerosol therapy for deodorant and antiperspirant purposes after their contact dermatitis cleared.

When used along with systemic treatment, dichlorisone aerosol therapy proved highly effective in herpes zoster patients. Definite signs of improvement were seen as early as 48 hours after institution of therapy. The use of this preparation, with its anti-inflammatory effect and the local cooling anesthetic effect of its vehicle (freon) appears to constitute a good therapeutic technique.

### Comment

Dichlorisone, when properly

used, appears to be as effective as or superior to topical prepara tions of hydrocortisone cr pred nisolone. The principal advatage of this new topical steroi is the almost complete absent of local irritation seen with i

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The application of a topic steroid, alone or in con unction with other measures such as sys temic therapy, does not eliminate the necessity for removing th Die contactant in contact allergies atier or the offending allergen in othe iseas types of allergic dermatoses. spite of the availability of high one effective antiallergic agents, the nits removal of the cause is to be accepted at all times to protect longed suppression by means a bown drug therapy.

### **Summary and Conclusions**

1. Dichlorisone, a new topic hent corticosteroid, was given in varient ous forms to 1097 patients with atte a wide variety of dermatolog a 13 conditions.

2. In the majority of cases d mu chlorisone produced results sin I This ilar to those obtainable with top cal prednisolone therapy, while eliciting a superior therapeut response in some patients.

3. The virtual absence of low on. irritation (0.46% of cases) and irritation (0.46% of ca

complete lack of systemic side and effects with dichlorisone is a fee dmi ture of this drug.

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# ddison's Disease Complicated by Diabetes

GEORGE P. McNICOL, M.D., Glasgow, Scotland, and MARTIN W. McNICOL, M.D., London, England

Diabetes mellitus developed in a tient seven years after Addison's sease had been diagnosed. She has en maintained on 25 mg. of cortine daily and approximately 30 its of insulin zinc suspension daily. I creased insulin sensitivity, charteristic of Addison's disease, was own in this case.

The combination of Addison's sease and diabetes mellitus is re; the total number of docuented cases recorded in two rent reviews is 56. In 37 of these tients diabetes occurred first, 13 Addison's disease, and in remaining 6 the onsets were nultaneous.

The patient, 47, had normal alth until 1950 when she noed the gradual onset of weaks, loss of weight, loss of enzy, and generalized pigmentan. Following a short acute illis, with shivering, vomiting pains in the limbs she was mitted to hospital in a colsed state. Pigmentation in-

volving the palmar creases, the nipples, pressure areas, exposed areas, and the buccal mucosa was noted. A diagnosis of Addisonian crisis was made. She responded well to treatment with intravenous saline and cortisone. On leaving hospital she received a subcutaneous implantation of deoxycorticosterone acetate. Three years later, because of rising blood pressure, treatment was changed to oral cortisone.

Well until 7 years later, following a sore throat, she had increased thirst, polyuria, muscle cramps, blurring of vision and heartburn. Vomiting was frequent. Increase of cortisone dosage to 150 mg. daily was made; much of this was probably lost in the vomitus.

### **Diabetes Detected**

In hospital 16 days later she was dehydrated and collapsed; pigmentation had persisted. No other clinical abnormalities were detected. Diagnosis was Addisonian crisis; within 45 minutes of admission she was given an intravenous infusion of one pint of 5% dextrose in normal saline with 50 mg. of hydrocortisone hemisuccinate. Almost immediately blood pressure rose to 105/55. Blood sugar on admission was 680, after the infusion, 750, mg. per 100 ml. It seemed probable that the patient had developed diabetes mellitus. The initial clinical improvement was maintained and within a few days the patient declared herself restored to her normal health. Chest x-ray showed no abnormality and a straight film of the abdomen showed no suprarenal calcification.

The patient was stabilized on a 2200 calorie diet with 25 mg. of cortisone and 12 units of insulin zinc suspension daily. During convalescence she fell and sustained a simple Pott's fracture which required increased cortisone. When the fracture had healed she was discharged home. taking 25 mg. of cortisone and 16 units of insulin zinc daily. On two occasions of symptoms of hypoglycemia, blood sugar was high, i.e., 158 and 234 mg. per 100 ml. At home there was apparently continuous glycosuria. but no ketonuria, blood sugar 3 hours after breakfast 300 to 600 mg. per 100 ml.; insulin increased to 20 units zinc suspense resion daily, blood sugar fell to 2 by un to 300 mg. bsent

The patient remained well in bids, six months when polyuria, lo timul of energy, muscle weakness and as in cramps developed. Hearthur osino for 24 hours heralded a sudde ection collapse. In hospital blood pres Part sure was too low to be record ached ed, remained very low and in rom travenous noradrenaline was re Then quired to maintain a systolic teroid pressure of 100. rater

### Medication and Dietary Control Jours,

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Eventually she was again sta ral a bilized on 25 mg. cortisone. Al ortise though the diet had been re duced to 1700 calories insultant requirement was 30 units of zin fou suspension daily; the dose harmons remained at 20 and 30 uni nd daily, dose of cortisone constar at 25 mg. daily. There have been available. hvali two episodes in which cortison hsuli dose has been increased on a count of respiratory infection nsur and in one of these there w o gl moderate ketosis. Deoxycortio sterone trimethylacetate has fter been given intramuscularly, mg. at intervals of about si weeks.

The diagnosis of Addison's dis ease was based on the clinical picture of pigmentation with weight loss and asthenia which responded promptly to steroit therapy. This was supported by he results of laboratory tests:
we urinary 17-ketosteroids and
beent urinary 17-hydroxycortimoids, before and after adrenal
minulation with ACTH; there
was no fall in the circulating
mosinophil levels after ACTH inmeteric controls.

Particular importance is at-

Particular importance is atached to the results obtained
from the water excretion test.
When the patient received no
beroid therapy only 22% of a
rater load was excreted in 2
ours and only 47% in four
ours, whereas when the test
as repeated 2 hours after the
ral administration of 25 mg. of
ortisone, 39% of the load was
excreted in two hours and 75%
in four hours. There was no demonstrable renal disease. If the
ontrol of the diabetes is poor
and there is glycosuria, water
excretion tests may be rendered
invalid. In this case, therefore,
insulin dosage was adjusted at
the times of the water tests to
assure that there was virtually
o glycosuria.

The diabetes appeared 7 years fter the diagnosis of Addison's

disease of fairly acute onset. Seventeen days after the patient first noticed thirst and polyuria, diabetic ketosis was severe. The diagnosis of diabetes was confirmed by the oral glucose tolerance tests which show an abnormal rise after glucose ingestion, with a much delayed fall in blood sugar levels, whether fasting levels were low or high.

Increased insulin sensitivity which is characteristic of Addison's disease is shown in the present case: profound hypoglycemia was produced by a very small intravenous dose of insulin (0.5 unit).

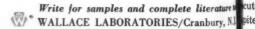
The patient shows a remarkable understanding of her disability and her therapeutic requirements; she increases her cortisone dose in the presence of infection (usually common colds and bronchitis). If necessary she also makes minor adjustments in her insulin dosage. There is no doubt that her intelligent cooperation is an important factor in maintaining her present state of well-being.

Scottish M.J., 5:30-36,1960.

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# current literature

# steroid Therapy in Systemic Infections

MONROE J. ROMANSKY, M.D., Washington, D.C.

While steroids have accomplished emissions in pneumonia, other acute shile diseases, and infectious hepatis, a high relapse rate belies sympomatic improvement. Steroid thereby is valuable in adrenal insufficiency and in meningococcic toxemia, at these drugs also depress antiody production.

■

In patients with pneumonia, eroids can induce striking dervescence and symptomatic reef, with a decrease or disapearance of subjective and obective findings despite the perstence of pneumococci in the putum, and blood, and, even the pread of pneumonia to other bes with subsequent develophent of empyema. Steroid therpy used in patients with acute ebrile illnesses has brought bout rapid remission and reersal of the distressing clinical vidences of the illness. When he etiological agent could be emonstrated, as in bacterial neumonia, typhoid, and subcute bacterial endocarditis, de-Dite the remission of the clinical syndrome, evidence of increased multiplication or spread of the micro-organisms was frequently noted.

In infectious hepatitis, the use of steroids leads to rapid symptomatic improvement and a rapid fall in level of serum bilirubin. However, relapse occurred in 20% of the treated patients and not in controls. These hormones should not be employed in the average case but only for patients who are quite ill, especially those with marked anorexia.

# Degree of Hazard Variable

The degree of hazard of infection in patients receiving corticosteroids is not easy to evaluate. These agents may so camouflage the appearance of septicemia that the infection may only be noted at autopsy. There have been instances in which steroids were used in patients with fever of unknown origin, with the assumption that an infection rather than tuberculosis was present, only to have rapid progression

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of active tuberculosis, indicating that this diagnosis had been missed. The danger to a particular patient receiving steroids may also vary according to his basic status. Intercurrent infection is more likely to develop in persons with a debilitating type of illness who receive steroids than in those with a milder illness or with a chronic illness such as rheumatic fever, in which debilitation is not a prominent factor. There is a report of 12 fatal cases of chickenpox in children receiving steroids at the time of exposure to the disease.

### Effects in Other Situations

That large doses of steroids depress resistance to infection has been proven by studies with bacterial, viral, fungal, protozoan, and even helminthic agents. Increasing the dose of steroids may overcome the effect of a given dose of a specific protective chemo-therapeutic agent. In typhoid and brucellosis, rapid defervescence follows the combined use of steroids and chemotherapy. No carefully controlled studies are available.

The value of steroid hormones in adrenal insufficiency is well established. The optimal dose of steroid is critical, and an excess is likely to be harmful. Objective means for determining the optimal dose clinically are not yet

available. Adrenal insufficience may result from severe sepsis, the absence of Addison's disease Pretreatment with cortisone pro nort tects the adrenals from the dam veride aging effects of, e.g., diphthem Upjoh toxins, but does not protect from the lethal action of the toxin. I and q would appear that the damage parall caused by the toxin is so wide constituent of the adversarial gland alone is of little design benefit. In meningococcic tox enhancemia with collapse, the use of and experiments of the second second constituence of the second collapse. emia with collapse, the use of and elements and related compounds is generally recommended as Verid part of therapy. Some emphasize fryst the need for a pressor agent such association. as levarterenol along with the adrenal hormones and chemo The o therapy.

The protective effect of ster drama oids against bacterial endotoxi neuros depends on increased blood levels of steroids at the time of sebora contact between endotoxin and Availa susceptible tissues. Adrenal corticosteroids diminish the inflammatory response, regardless of the stimulus. The evidence indicates that the primary focus of steroid action is on vascular responsitivity. The effects of hypersensitivity reactions and similar derma tissue responses to immunologically active stimuli probably reflect the general anti-inflammatory effect of these steroids rather than a specific effect on purely immunological mechanisms. Steroids depress antibody pro-

# New from Upjohn ... a base that approximates normal skin oils

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### Available in four formulations: Veriderm Medrol Acetate

0.25% - Each	gr	ar	n	co	ni	ai	n:				
Medrol (methyl)	pre	Ed	ni	SO	lo	ne	()	A	ce	tat	te
(0.25%)		*	×				*		2	.5	mg.
Methylparaben										4	mg.
Butyl-p-hydroxy	be	n	105	at	e					3	mg.
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Medrol (methyl)	pre	ed	ni	SC	No	ne	.)	A	ce	tat	te
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Methylparaben										4	mg.
Butylen-hudrayy	ho	0.1			0					2	00.0

### for secondarily infected dermatoses Veriderm Neo-Medrol Acetate 0.25% - Each gram contains :

Medrol (methylprednisolone) Acetate
(0.25%) 2.5 mg.
Reomycin Sulfate 5 mg.
(equivalent to 3.5 mg, neomycin base
Methylparaben 4 mg.
Butyl-p-hydroxybenzoate 3 mg.
1%-Each gram contains:
regrot (methylprednisolone) Acetate
(1%) 10 mg.
Neomycin Sulfate 5 mg.
(equivalent to 3.5 mg, neomycin base
Methylparaben 4 mg.
Bityl-p-hydroxybenzoate 3 mg.

CONSTITUENT		VERID	ERM :	HUMAN SKIN LIPIDS (approximate)		
I. Fre	e Fatty Acids	60		23.5		
A. Ur	saturated	20%	201	%		
B. Sa	turated	10%	109	%		
II. Sa	ponifiable Mate	rial				
	iglyceryl esters fatty acids	25%	259	%		
	her esters fatty acids	17%	15	%		
III. N	onsaponifiable	Material				
1.	drocarbons Saturated Unsaturated	8%	89	- T		
B. Fr	ee cholesterol-	-3%	2-49			
C. Hi	gher mol. wt. ohols quid and solid)		10-159			

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the corticosteroid that hits the disease, but spares the patient.

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duction but do not alter the degradation rate of the performed antibodies. The exact status of steroids in the collateral management of infections requires much in the way of further controlled clinical study.

Reticuloendothelial function

is disturbed by administration of the steroids and is manifestalless in the initial response of the reticular cells to an injected low than in their capacity for record are after such a dose has been administered.

J.A.M.A., 170:1179-1183,1959.

# Lead Poisoning

Symptoms include metallic taste, nausea, persistent vomiting, abdominal pain, diarrhea. and malaise in the acute stage. Chronic exposure may cause avitaminosis, loss in weight, stomatitis, black gum line, severe colic, anemia, increase in reticulocytes, basophilic stippling, jaundice, coproporphyrins in urine, constipation alternating with diarrhea, possible hepatic, kidney, pulmonary, or central nervous system damage, mental aberration, arthralgia (especially at night), wrist or foot drop, encephalitis (especially in children, also occurring in adults poisoned with lead tetraethyl), peripheral neuritis, collapse, coma, and death.

In acute poisoning vomiting should be induced or gastric lavage used. Demulcents such as white of egg, cream, or milk should be administered and sodium sulfate, 15 gm. in ½ glass

of warm water, may be given. It seem alkaline diet should be offer eston and calcium gluconate or lacta there or sodium citrate administer is a intravenously, plus vitamin that of Symptomatic treatment places to supportive treatment for possibilitier and kidney involvement required.

Tri

Specific treatment of choice none calcium disodium versenate, riac) gm., in 250 to 500 ml. isotoplace sodium chloride solution or 5 na m dextrose by intravenous dehyro over a period of one hour. Suclini doses may be administered twilaim daily for periods up to 5 da an lo interrupted for 10 days, and ut o necessary, an additional 5 da ects. of treatment given. For children pecia the dose of versenate should he ra exceed 0.5 gm. per 50 pour uncti of weight, given twice dai nyxe Urine should be analyzed libly lead to determine when it erol, ary normal.

Kaye, S., Virginia M. Month., 87:31-32,1960 ertal

# Rapidly Acting Thyroid Hormones and Their Cardiac Action

K. IBBERTSON, M.D., RUSSELL FRASER, M.D., and D. ALLDIS, M.B., London, England

Triiodothyronine and triac have heen shown to provide more rapid to estoration of thyroid function than there known agents. Basal metabolation had been and electrocardiogram tests show hat oral doses produce maximal effects within 24 hours. Care should be taken in treating myxedematous patients so as not to induce angina.

Two synthesized thyroid horenoses (triiodothyronine and riac) provide full thyroid replacement therapy for myxedes a more rapidly than the main hyroid hormone L-thyroxine. Ulinical investigators have alimed that small doses of triac an lower blood cholesterol without other equivalent thyroid effects. Triac might therefore have pecial clinical uses, both when the rapid restoration of thyroid unction is desired (as in cases of pyxedema coma) and also possibly for lowering blood cholesterol, e.g., in patients with corotary atheroma. Studies were untertaken to assess how soon triac

acted and whether it did specifically lower plasma cholesterol.

## **Details of Administration**

The large single dose of triac or triiodothyronine was given only to myxedematous subjects judged unlikely to have coronary artery disease with no clinical or ECG evidence of this disease, those under 40 years or who had only had a short period of myxedema, or those who had previously had full thyroid replacement therapy without disability. Of six patients, showed the signs of complete thyroid failure, and two had hypopituitarism. The six observed for longer periods on various daily dosages of triac included two of these patients and four others with complete thyroid failure.

For the single-dose experiments, triac was given in oral doses of 18 and 12 mg. (3 times the full daily replacement dose),

and triiodothyronine in oral doses of 0.5 mg. (7 times the daily replacement dose).

# Comparable Observations

With the scheme of sedation described below, comparable observations of six patients were made under basal conditions during 18 test days. With four patients three test days were observed-that of the placebo, of the triac, and of the triiodothyronine dose-usually in that order. With one patient the triiodothyronine day preceded the triac day. A further two patients received one or other of these drugs on a single test day. During each test day serial measurements of the B.M.R., ECG, plasma cholesterol, urine volume, creatine, and creatinines were made on all patients. Urine phosphate was determined in 1 patient. To permit comparison of the effect in the different patients, the metabolic measured were presented as a percentage of each patient's initial value for that test day.

# Scheme of Sedation

The study of the changes in the B.M.R. within a 24-hour period was made possible by an extended use of the sedated B.M.R. procedure. Thus on a "test day" the patient was first sedated with sodium amylobarbitone 200 mg. given at 7 a.m. and 9 a.m. The

test dose of the drug to be stud ied was given at 9 a.m. The m tients were allowed to slee throughout the day, being wal ened to pass urine only after the two-hourly B.M.R. and ECG s timations. A further dose of sodi um amylobarbitone was given signs of rousing were observe during the day. Sips of water were allowed throughout th day. On the morning following each trial day the patients wer with similarly sedated and, after B.M.R. recording, were wakene at breakfast for oral doses bemegride. By these means, re For serial B.M.R. reading were obtained without incom venience to the patient.

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## Inferences from Results

Where there is no reason to suspect coronary ischemia, thes studies have indicated that con siderable restoration of thyroi function may be safely achieve Thus within 24 hours by using tria affor or triiodothyronine. Optimal do sage should probably be a load ing dose of 12 to 18 mg. of trial house followed by 4 to 6 mg. a day intra three divided doses. Where then is any history suggesting anging these rapidly acting thyroid hor mones should not be used. For subjects over age 40, or thos with ECG or other suggestion of cardiac abnormality, the in tial dosage of triac should m exceed 0.25 mg. a day, this cal

# "It Day" for the neuritis patient car be tomorrow

"R Day"—when pain is relieved—can come early for patients with inflammatory (non-traumatic) neuritis if treatment with Protamide is started promptly after onset.

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Intramuscularly only, one ampul daily.

# PROTAMIDE



PAGE 794

Sherman Laboratories

Detroit 11, Michigan

Lehrer, H. W., et al.: Northwest Med. 75:1249, 1955.

2. Smith, Richard T.: New York Med. 8:16, 1952

tiously increased toward a full maintenance dosage over 10 or more days.

It is clear from these studies that single doses of either triac or triiodothyronine produce effects in four hours, maximal at 8 to 12 hours. Within 24 hours after each of these and maximally within at least 48 hours, there is an increased urinary volume increase in Na, Cl, N, P, creatine, and perhaps also Ca levels, and usually a rise in B.M.R. These early B.M.R. and other changes contrasted with those observed after single doses of thyroxine. when they have not been discerned for several days or been maximal till the tenth day.

# **Summary and Conclusions**

After single oral doses of 12-18 mg. of triac and of 0.5 mg. of triiodothyronine, effects were observed in myxedematous subjects at as early as four hours and were maximal within 24 hours. These doses caused rises in sedated B.M.R., in the R wave of the ECG, in urinary creatine and phosphate, and a fall in pla cholesterol. Triac ma slightly more rapidly than to iodothyronine, and its effect lasted seven to 10 days.

The daily administration triac in maintenance doses myxedematous subjects graudally achieved a full effect within seven days. In small doses triac or triiodothyronin could induce a fall in plasmach lesterol without apparent B.M. or ECG effect. However, on connec is stant daily dosage, triac give xperi every 12 hours showed a low B.M.R. in the morning than the evening, or when given even three hours.

Even small doses of triac coul rapidly induce angina in my edematous subjects who had gi en a history of angina, but tri may be the best thyroid hormon for treating subjects with my edematous coma who do not gi a history of angina.

An ECG may be taken eigh hours after a dose of triac to co firm the diagnosis of hypoth roidism in young subjects.◀

Brit. M.J., 2:52-58,1959.

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# athogenesis of Cancer

Editorial, Cancer Bulletin

Cancer cells circulating in the lood stream are a potential source metastatic growth, but their presce is not related to survival rates, experiments indicate that regional mph nodes may represent a barrier disease spread, indicating that urgical removal may not be necestry.

In 50 to 60% of patients underoing operation for tumors, tunor cells are demonstrable in lood draining from the tumor. efore tumor is discovered clincally cancer cells are probably irculating in the blood stream, ut their demonstrable presence not related to survival rates. If these cells are a potential ource of metastatic growth, here exists a means of control in some patients.

Local trauma may be a posible factor in metastatic spread. In experiments conducted 40 rears ago, an emulsion of tumor cells was injected into the perioneum of mice. Cancer did not occur, but if a little glass rod was placed in the abdomen one week before injection, cancer developed at the site of injection. If silicate powder was placed in the abdomen, carcinomatosis also ensued. A suspension of tumor cells was injected into rats, and, two weeks later, laparotomy and liver massage were performed, definitely increasing metastases. A high-fat diet increased metastases, decreasing when the animal received a diet high in carbohydrates.

Records examined 20 years ago of children with bone sarcoma showed that of those for whom diagnosis was made at the first symptom and radical surgery performed without delay only 3% had pulmonary metastases, while over 30% of those refusing operation (or for whom local excision was done) developed pulmonary metastases. In these children tumor cells probably were already in circulation when the disease became evident clinically. Radical surgical therapy in these cases disturbed the host-tumor relationship.

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thile local removal decreased the incidence of circulating tunor cells, later operations consemently not having this effect.

annuly not having this effect. Antigenic differences in sponnature of the same type as those ausing rejection of skin transplants. Circulating cancer cells a the blood may be homografts ejected because of the immunolgic differences of the host. The first rejection of skin graft from a naimal of one subline to a nouse of another subline occurred in 12 days, but the second raft to the same animal was reected in six. If a regional lymph node was transplanted from the immunized animal to a second animal of the same strain, and a graft then made to the second animal, the graft rejection was found to occur in six days.

The transplantation of nodes other than the regional ones draining the site of the graft do not confer this "adoptive" immunity, so that the regional lymph nodes possibly represent a barrier to disease spread. If this hypothesis is substantiated, current indications for surgical removal of lymph nodes would have to be reappraised. ◀

Cancer Bull., 5:90,1959.



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# Arterial Occlusive Diseases of Lower Extremities

ELIE D. ABOULAFIA, M.D., and ALLAN D. CALLOW, M.D., Boston, Massachusetts

Pocclusions are usually due to hrombosis, emboli, or to trauma. Atteriography and aortography are important means of diagnosis and reatment of arterial diseases in general. Vasodilator drugs may be helpful, with proper foot care being the most important feature of non-operative management.

Acute arterial occlusions are sually due to thrombosis in a previously diseased vessel, to mboli, or to trauma. In the lower extremities, unless promptly relieved, it results frequently in apid onset of gangrene. Relief s rapidly achieved by arterioomy and by removal of the clot. Any diseased arterial segment at the site of obstruction may be reconstructed. Search for the pathologic process responsible or the dislodged thrombus must be sought and treated. Excision of the involved segment with end-to-end anastomosis is the procedure of choice. If the defect is large, vascular graft is necessary. Excision of a diseased arterial segment and its replacement by graft in treating arteriosclerosis obliterans of the lower extremities is used less frequently now than in the past.

The surgical interruption of sympathetic nervous routes at their lumbar ganglionic chain is also performed much less often since the introduction of more direct methods. It retains its value in treatment of Raynaud's disease or some early cases of arteriosclerosis obliterans.

Arteriography and aortography have been responsible to a great extent for improving the means of diagnosis and treatment of arterial diseases in general, and of arteriosclerosis obliterans of the lower extremities in particular, yet both have been abused and misused. Wise conservative management in cases not curable by surgery will result in a decreased amputation rate and in an improvement of

symptoms or adjustment of the patient to them.

Vasodilator drugs may be helpful in pure vasospastic conditions and in some cases of thromboangiitis obliterans (Buerger's disease). In advanced peripheral arteriosclerosis obliterans, vasodilator drugs may decrease rather than increase blood flow to the extremities. Effects of vasodilator drugs may not appear for four to six weeks, for which reason it is important to observe the patient carefully during this period and to continue the drug only if adverse effects are not noted.

Proper foot care is probably the most important feature of non-operative management, e.g., keeping the feet warm, clean and free from any kind of local pres sure. Complications must be at gressively treated as they arise and all unnecessary minor procedures (as paring of a callus) should be discouraged.

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The amputation rate in patients never having smoked is a high as in those continuing to smoke, while the amputation \( \rightarrow Y \) or rate is lower in smokers having urging stopped smoking. Although we have smoking should be discourd a ged in these patients, it may be igh resumed if no significant im 000 provement results. Beverage a bilit cohol may contribute to the dere well-being of the patient and relieve minor symptoms.◀

J. Maine M.A., 50:347-352,1959.

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# Procedure in Pediatric Surgery

H. W. CLATWORTHY, JR., M.D., Columbus, Ohio

in Young infants withstand major in urgical procedures well, since they go re well hydrated and hypervolmic, up a good nutritional state, and have ligh levels of circulating corticoids. In the oelective surgery should be done in the hose three to 14 days old, since their bility to withstand trauma is contact the iderably less.

Congenital malformations in ofants are usually single and emediable. During the first few ours the major anomalies inompatible with continued exisence can be corrected with gratying results, if diagnosed before omplications have sapped vitaly. Omphalocele, meningocele. passive teratoma and imperfoate anus are readily recognized. arly recognition of occult leions involving the respiratory nd alimentary tract should also e a prime consideration of all rofessional personne! An accuate diagnosis can usually be eached quickly by x-ray examiation.

The younger the infant the less isturbing will be a major surgi-

cal procedure, since he is well hydrated and hypervolmic, is in an excellent nutritional state, has high levels of circulating corticoids, and has inherited antibodies enabling him to resist infection. He also possesses a high threshold for pain, thereby requiring less toxic anesthetic agents. If handled gently and skillfully, he will tolerate major surgery extremely well and recover rapidly. He also possesses the reserve to endure a prolonged convalescent period. In the three- to fourteen-day postpartum period, the infant's abilities to withstand trauma seem less, so that no elective surgery should be undertaken during this period. Although physicians may let a child "grow up until he is old enough to be operated on," there is little evidence for this, particularly if the growing up period is one of crippling morbidity and mortality of attrition.

Infants with congenital, indirect inguinal hernias should be

referred for radical surgery as soon as the hernia is diagnosed. The mortality in these instances is nil and the morbidity slight, and the risk of dangerous complications expected in 10 to 15% of such cases is largely eliminated. Umbilical hernia affects 15% of the white and 25% of the colored infants. Eighty per cent of all close spontaneously by age two and more than 95% by school age, so that it is proper to await developments with this condition.

Every hospital admitting infants for surgical procedures should provide clean, isolationtype facilities to protect the infant from his sick neighbors and from members of the hospital staff. Uninfected surgical infant should not be exposed to infect ed ones, and both require can Sta tious conduct through the admit ting office, and to and from the x-ray, operating and recover suites.

The most effective way avoid emotional disturbances the child as well as in the family is to do as much elective surger as possible in infancy, and to in sist on adequate premedication before the induction of anesthe sia. Cosmetic surgery should be performed before school age.

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Minnesota Med., 42:710-713,1959.

# PROSTALL

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# FACTS

FACT 1. Prostatectomy can often be avoided by expectant medical treatment.1

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FACT 3. Prostall capsules reduce prostatic enlargement in 92% of cases.3

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FACT 5. Prostall causes no side effects.4 No contraindications.

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- Chapman, T.L. Expectant treatment of benign prostatic enlargement, Lancet 2:584, 1949.
- Minman, F., The obstructive prostate, J.A.M.A. 135:136, 1947.
- Feinbiett, H.M., and Gant, J.C., Palliative treat-ment of benign prostatic hypertrophy, J. Maine M.A. 49:99, 1958.
- 4. Ibid. 23, Southwestern Med. 40:109, 1959.

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# Staphylococcal Infections in Obstetrical and Surgical Patients

ALFRED L. KENNAN, M.D., Seattle, Washington

er Simple measures to lower the inin idence of staphylococcal infections
nclude discontinuing prophylactic
is so of antibiotics, administering cominations of antibiotics where sensiivity is known, meticulous preparaion for surgery, sterilization of all
lospital bedding, and use of the "no
lands" dressing technique.

Study of factors causing infecon of the breasts involved obaining material from patients nd from all personnel employed n the obstetric floor. During the tudy 117 live births occurred. lo coagulase positive staphyloocci were isolated from vaginal ultures taken from 99 mothers ust after delivery. Fifty of the irths were attended by an obtetrician who was a carrier, nd although a number of these hfants became colonized and nfected, none had the strain caried by the obstetrician. Bedding f the mothers was never idenfied as a source of infection for he epidemic strain.

Ninety of the mothers were

followed in the postpartum clinic. In 9, definite evidence of mastitis or breast abscess appeared, in one this being bilateral. Purulent material was obtained from the breast in four of these mothers. In each case the staphylococci isolated were resistant to penicillin, streptomycin, and tetracycline. The same strain was recovered from the breast milk in three other mothers. It was discovered that this was the strain producing an epidemic in the nursery. None of the mothers carried this strain on admission. All their infants were found to be colonized with the epidemic strain before it was isolated from any of the mothers, and eight of the infants had clinical staphylococcal infection before the onset of breast infection in the mothers. All nine of these mothers breast fed their infants. Among 19 mothers breast feeding infants colonized by a nonepidemic strain, and 67 mothers not nursing their infants, there

were no breast infections despite the fact that 34% of these infants were colonized with the strain. Of the mothers nursing infants colonized and infected by the epidemic strain, 40% in turn developed mastitis or breast abscess. The infants probably acquired the infection in the nursery from other infants and transmitted it during nursing.

Surgical infection with staphylococci is universally present in hospitals and cannot be entirely eliminated. Convergence of the surgical services in the operating area makes this a place where imprudent procedure has widespread effects. Litters, covered with blankets from the wards, remain in corridors frequented by physicians and personnel coming in close contact with them. Exhaust fans in the utility areas reinforce the normal circulation until at operating time an open petri dish containing agar will accumulate some 20 colonies an hour, half contaning the resistant bacteria. Face masks on carriers become contaminated with bacteria, these appearing on the exterior of the mask and soon circulating from there. It is now recommended that carriers resistant strains change fa masks every hour. There is area in hospital environme where infected personnel can should be allowed.

Although the carrier effect wound infection becomes le clear as evidence accumulate the situation is not hopeless at simple measures will suffice. To Dia, prophylactic use of antibiotic spas should be discontinued, and the epocapy with these agents used on many where the sensitivity is known rgic. Antibiotics should be used in many combinations offect of which ents combinations, effect of which aler different from the expected in sic. quency of double mutation Wound infections should be A: carefully segregated and ison g lated. Meticulous abdomin bass preparation, atraumatic tech eus niques, dry wounds, and carefuthe closure reduce sepsis to a min eca imum. Hospital bedding shoul lain be laundered using a preparation he which sterilizes during the wash ook "No hands" dressing technique ave should be revived. In seven yne hospitals these simple measure edi have reduced the incidence dut postoperative wound infections eco to their normal 2%.◀

Wisconsin M.J., 58:307-309,1959.

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# evator Spasm Syndrome

WILLIAM T. SMITH, M.D., Minneapolis, Minnesota

Diagnosis depends upon finding of spastic tender muscle or muscles of e pelvic sling. Treatment consists massage of involved muscles and rgical or medical control of any inmantory processes present. Paents should take sitz baths, warm atter enemas, and aspirin as an analsic.

A fairly common ailment seen a general practice is painful a pasm of the levator ani, coccythe eus and the pyriformis muscles, in their separately or as a group. It is cause of the peculiar comtail laints and lack of evident signs, on the condition is often overtail booked. Many of these patients to a vecarried their complaints to a vecarried

Most of these patients sit, restng the weight on one buttock or the other, and complain of actentuation of pain in the act of ising, or when they attempt to sit squarely on a chair. Affected muscles feel larger than normal. The uninvolved side feels flat and relaxed. In cases of true levator spasm, the coccyx is not painful on bi-digital examination. Most cases are unilateral. Examination may be done in the inverted or left Sims position, the gloved finger inserted the full length of the rectum, the flexor surface being just anterior to the coccyx and sacrum. Bi-digital examination of the coccyx may elicit tenderness. As the finger is moved laterally, anteriorly and medially, only part of the pyriformis can be felt while most of the coccygeus and the levators can be felt as they proceed to their insertion to the coccyx and sacrum. If this disease goes untreated for years, the affected muscle may shrink and have the feel of ligamentous or fascial bands. X-ray is of little or no value in the diagnosis.

The diagnosis of this syndrome rests upon the demonstration of a spastic tender muscle or muscles of the pelvic sling. Inflammatory disease of the anorectum and adjacent viscera should be sought, but in few instances can it be demonstrated.

Treatment consists of massage of the involved muscles and surgical or medical control of any inflammatory processes present. Massage is best done with the patient in the left Sims position. The index finger inserted its full length, the flexor surface toward the coccyx, gentle but firm pressure being made as the finger is drawn over the bellies of the spastic muscles in a postero-anterior stropping motion. Having the patient bear down may help to relax the tender muscle and the massage is better tolerated. Massage is continued on each side for 15 or 20 strokes (for five minutes). This is done daily for four or five days, then every other day until improvement is shown. After the

first or second treatment the parmay be worse. After half a deen, most patients show good is provement. Massage is then a tinued at regular intervals us the pain has disappeared and further treatment is necessar.

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At home, the patient takes in baths, warm water enemas, a aspirin as an analgesic. Drugs reduce muscle spasm have be of no value. Voluntary contra tion and relaxation of the glute maximus and the pelvic sin muscles improves the tone a reduces spasm. This can be do many times daily without incom venience and seems to be part cularly valuable in women wit loose, sagging pelvic muscle These patients must be warne to sit on a firm surface and allo the weight to rest upon the isd ial tuberosities and muscles the back of the thigh.

Minnesota Med., 52:1076-1079,1959.

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# neurysias of Abdominal orta with Fever

In reviewing 20,201 necropsies, a arteriosclerotic abdominal ortic aneurysms measuring ore than 2 cm. were found; condary bacterial infection was und in only 6 (3%). Four of ese 6 patients with infected eurysms were febrile, and in e aneurysms of 5, gram-positive cocci were demonstrated hisologically. Rupture occurred in 7% (4 of 6 cases) of the infectal arteriosclerotic aneurysms in other series, compared to 18% the non-infected type.

The presence of bacterial inction should be suspected in tients with abdominal aneusms and fever. Positive blood litures would lend support to uch a suspicion. Leukocytosis nd anemia are common in paents with ruptured aneurysms. ut a significant fever is unmmon. Once an arterioscletic aneurysm becomes infected. he incidence of rupture is high. rophylactic antibiotic therapy hould be considered whenever acteremia is likely to develop patients with aneurysms of rge vessels.

Studies in 84 patients with arterial obstruction not only provided no clues whereby thromboangiitis obliterans could be distinguished clinically from atherosclerosis, but also did not permit the conclusion that Buerger's disease can be diagnosed by exclusion. The failure to recognize atherosclerosis or its sequelae clinically reflects the inadequacy of diagnostic technology rather than evidence that the disease is not present.

It is evident that the disease originally described by Buerger is indistinguishable from atherosclerosis, systemic embolization, or peripheral thrombosis singly or in combination. Adequate data were never presented to indicate that the patients Buerger and his contemporaries studied had a clinically, pathologically or etiologically distinct morbid process. Thromboangiitis obliterans cannot be considered an entity in either the clinical or pathologic sense, and it is recommended that the term be discarded.

Critical Evaluation of Thromboangiitis Obliterans

m Eyck, F. W., et al., Proc. Staff Meet. Mayo Clin., 35:1-7,1960.

Wessler, S., et al., New England J. Med., 262:1149-1160,1960.

matory disease of the anorectum and adjacent viscera should be sought, but in few instances can it be demonstrated.

Treatment consists of massage of the involved muscles and surgical or medical control of any inflammatory processes present. Massage is best done with the patient in the left Sims position. The index finger inserted its full length, the flexor surface toward the coccyx, gentle but firm pressure being made as the finger is drawn over the bellies of the spastic muscles in a postero-anterior stropping motion. Having the patient bear down may help to relax the tender muscle and the massage is better tolerated. Massage is continued on each side for 15 or 20 strokes (for five minutes). This is done daily for four or five days, then every other day until improvement is shown. After the

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At home, the patient takes baths, warm water enemas, a aspirin as an analgesic. Drugs reduce muscle spasm have be of no value. Voluntary contra tion and relaxation of the glute maximus and the pelvic sin muscles improves the tone and reduces spasm. This can be don many times daily without inco venience and seems to be part logic cularly valuable in women with loose, sagging pelvic muscle These patients must be warned to sit on a firm surface and allo the weight to rest upon the isd ial tuberosities and muscles the back of the thigh.

Minnesota Med., 52:1076-1079,1959.

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# neurysias of Abdominal orta with Fever

In reviewing 20,201 necropsies, a arteriosclerotic abdominal rice an eurysms measuring ore than 2 cm. were found; condary bacterial infection was und in only 6 (3%). Four of ese 6 patients with infected eurysms were febrile, and in a aneurysms of 5, gram-positive cocci were demonstrated hisologically. Rupture occurred in 1% (4 of 6 cases) of the infectarteriosclerotic aneurysms in other series, compared to 18% the non-infected type.

The presence of bacterial inction should be suspected in tients with abdominal aneusms and fever. Positive blood ultures would lend support to ich a suspicion. Leukocytosis nd anemia are common in paents with ruptured aneurysms, ut a significant fever is unmmon. Once an arterioscletic aneurysm becomes infected. he incidence of rupture is high. rophylactic antibiotic therapy hould be considered whenever acteremia is likely to develop patients with aneurysms of rge vessels.

# Critical Evaluation of Thromboangiitis Obliterans

Studies in 84 patients with arterial obstruction not only provided no clues whereby thromboangiitis obliterans could be distinguished clinically from atherosclerosis, but also did not permit the conclusion that Buerger's disease can be diagnosed by exclusion. The failure to recognize atherosclerosis or its sequelae clinically reflects the inadequacy of diagnostic technology rather than evidence that the disease is not present.

It is evident that the disease originally described by Buerger is indistinguishable from atherosclerosis, systemic embolization, or peripheral thrombosis singly or in combination. Adequate data were never presented to indicate that the patients Buerger and his contemporaries studied had a clinically, pathologically or etiologically distinct morbid process. Thromboangiitis obliterans cannot be considered an entity in either the clinical or pathologic sense, and it is recommended that the term be discarded.

m Eyck, F. W., et al., Proc. Staff Meet. Mayo Clin., 35:1-7,1960.

Wessler, S., et al., New England J. Med., 262:1149-1160,1960.

# Spontaneous Expulsion of a Rectal Polyp

A girl of 18 was admitted because during a bowel movement she had felt something give and this was followed by bleeding for at least 30 minutes. Examination with the anoscope revealed that active bleeding had ceased and there was no gross evidence of pathology. Later, the patient's mother brought to the hospital a particle of tissue, 2 cm. in diameter, which had been passed by rectum before the bleeding began. The pathologist reported it as an adenomatous polyp. On the following day examination by proctoscope revealed an ulcer and blood clot 5 cm. above the anus, where the polyp had been attached. A barium enema examination revealed no evidence of other polyps, and no other pathology was found during the patient's hospital stay.

Vernon, S., Am. J. Proctology, 11:129-131,

# Treatment of Amebiasis

Amebiasis is not a clinically important infection in this country despite the prevalence of intestinal infection with E. histolytica in certain areas. Surveys based on stool examinations of hospital patients and rural inhabitants in these areas have disclosed infection rates as high as 20%. Surveys in many other

areas of the country have do ays no closed infection rates of 1 to 4° herap. The schedule of treatme blely should be determined by the four clinical findings rather that non a whether cysts or trophozoites a lost found in the stool. It should be eatm recalled that the stage of the originism found frequently depend on whether the stool is natural liquid or soft or collected after purgative, and on the method laboratory examination. The policy of the agents be used should be careful weighed against the degree of dos disease or disability (if any) do eight to the infection.

For the asymptomatic carm ore and mild case the objective or ly, the treatment should be the ultimated elimination of the infection by schedule of simple and safe or multitherapy. Antibiotics and drug range containing heavy metals are or given the same of the containing heavy metals are or given and the same of the s traindicated because they provide the provides cure than does the mild amed infection. Diiodohydroxyquin well tolerated, provides cure at least 75% and is the least to fithe agents available. The usual dose is 0.6 gm. three time to daily for three weeks. Stoole aminations may be reinstitute to soon after completion of the agents are discovered. soon after completion of treat ment and repeated at intervals alore three to six months. Very range give resort to another drug will necessary, in such a case card sone 0.25 gm. twice daily for 18t. H

nel

says may be prescribed. Further herapy must be determined blely on whether amebae can be found and not on speculation aron recurrence of symptoms. In most cases a single course of beatment will eradicate the intection.

Emetine HCl is effective for eminating the distressing emptons and signs of acute sere amebic dysentery. The raplity of effect is dramatic, even the term of two injections. This rug is injected intramuscularly doses of 1 mg./kg. of body eight, but in doses not exceeding 60 mg. per day and for not ore than 10 days at a time. Usully, treatment of four to seven as controls the symptoms. Tetacycline 2.0 gm. daily is given multaneously in divided doses or a few days, then 1.0 gm. daily given to a total of 10 days of hibiotic therapy. The tetracyline compounds hasten recovery had healing of ulceration and incre cures in at least 90% of paents.

The patient should be in bed ad watched for toxic manifestions. Although the amount of metine given is probably sufficient to destroy any amebae that ay have reached the liver, lloroquine 0.5 gm. daily may given for several weeks as a inclusion of the therapy.

st. H., New England J. Med., 262:513-514, 1960.



# Apathetic Hyperthyroidism

Hyperthyroidism can present in formes frustes, this being especially so in older patients. Typically women are affected; eye signs are slight or absent, and there is little enlargement of the thyroid gland. The patients look older than their years, have dry, wrinkled skin, and show few signs of disease in the circulatory system. Loss of weight is often greater than usual owing to long delay in recognition of the thyrotoxic state. Death occurs in stupor or coma without the frantic agitation of a thyrotoxic storm; operation of the thyroid gland is associated with a high mortality rate.

Most of the physiologic signs of thyrotoxicosis in dogs can be abolished by total sympathetic blockage, which brings back to normal the oxygen consumption, heart rate, and circulatory signs, suggesting that the response to hyperthyroidism may be mediated through the sympathicoadrenal hormones, augmented by thyroxine. In man, the urinary excretion of adrenalin is raised in hyperthyroidism, in parallel with the severity of the disease. A striking symptomatic and objective improvement in hyperthyroid patients given large doses of reserpine has been reported: some have been converted from a hyperkinetic to an apathetic state. The levels of m tein-bound iodine in the plan and of uptake of radio-iodine not change, though there some fall in the BMR.

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Annotation, Brit. M.J., 1:181-182,1960.

### Diarrheal Disease

To get the cooperation of patient, it may be wise to discu with him the following princip of treatment:

1. Concept of diarrhea & beneficial and protective med anism serving to clear the inte tinal tract of irritants.

2. Early investigation of cause.

3. Withholding of opiates h cause they interfere with interior tinal clearance.

4. Withholding of antimicrobi agents until the cause is deter mined.

5. Maintenance of optimum n trition, preferably by 3 regul meals and 3 in-between mea (all high in protein, rich in vit mins and minerals, low in redue, and high in calories), a omission of tobacco, chocolat chewing gum, alcoholic beve ages, and soup.

5. Use of abdominal and per neal compresses to apply mois heat for relieving pain and pro moting healing.

6. Keeping a daily bowel cha for evaluation of condition bowel.

Fradkin, W. Z., Am. J. Proctol., 11:40-44,190 -ft,

# Heart and Heart Failure

impairment of the pumping ion of the heart is basic in ocrrence of congestive failure. mmonly failure difficulty with mping is chronic and the heart ls to nieet only peak demands, hile in severe and chronic faile output may be low at all nes. In such situations as sere anemia and thyrotoxicosis e demands may be sustained at high level, and, although the art may respond, inadequacy d failure occur. In some inances functional loss of a large ea of heart muscle as a result myocardial infarction inter-res with pumping; in others e overload is caused by exeme hypertension, and in oths a tight mitral stenosis may struct passage of blood.

Increase of extracellular fluid sults from faulty excretion ther than excessive ingestion. he kidneys fail to function roperly, and retention of salt hid water ensues. Once fluid has sen retained, location in the ody is determined by hydrostat-factors. In some instances, of clearly understood, collection curs mainly in serous cavities thile in others the lungs are sectively involved.

Usually a lesion that causes allure principally affects one ide of the heart, more often the ft, and so heart pressure rises

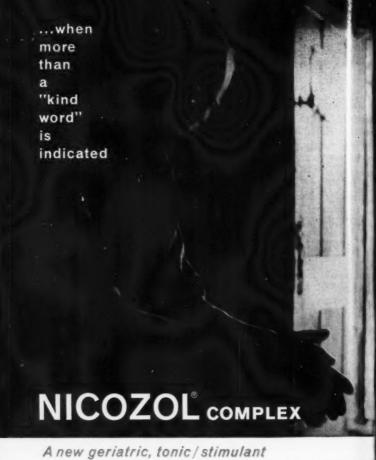
and extra fluid is placed in the lungs as under the skin. Dyspnea and other respiratory symptoms are common in patients whose disease affects the left ventricle. In aortic valve disease dramatic episodes of dyspnea alternate with periods which are almost symptom-free.

Low-sodium diets, diuretics, and other such means fail to attack the cause. With a few minor exceptions, curative therapy for a patient with a cardiovascular lesion is primarily surgical. Fortunately, the list of lesions that are operable or remediable is steadily growing. The physician, therefore, must be able to discriminate between operable and inoperable conditions. In many cases this is easy, others require specialized procedures.

Digitalis is the one drug effective in the chemical difficulties that cause heart muscle failure. Preparations differ only in absorption and speed of action. When used efficiently they improve the function of the ailing muscle.

To reduce the work load, anemia, chronic fever, and hyperthyroidism may have to be treated. Careful investigation of daily routine should be made, also of emotional conflicts, remaining aware of the dangers of overrestriction and unnecessary invalidism.

Warren, I. V., Heart Bull., 9:1-2,1960.



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Panthenol

Innsitol

Vitamin B<sub>12</sub>

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## perior Mesenteric Artery ndrome: Diagnosis and eatment

The acute form, seen in 7 pants, occurs after a period of mobilization caused by unreted disease or injury. Patients e nauseated, complain of abminal distress and distention, dyonit. The subscutto of d vonit. The subacute or ronic form, seen in 11 patients, nds to occur in tall, slender, undernourished types. Plain entgenograms may show gases distention of the stomach and yond the point of obstruction.
his obstruction is seen as a
ore or less straight-line shutf of the duodenum along the teral border of the psoas shadon the right. Medical manement may be successful in the ute cases, nasogastric suction ing instituted and fluids given travenously to maintain water d electrolyte balance. For ronic cases, duodenojejunosmy is the best treatment, alough it is suggested that dision of the ligament of Treitz nd freeing the distal portion of e duodenum may give relief of mptoms.

Indications for surgery in 10 patients included moderate or severe depression of the fracture. compounding of the fracture, excessive comminution of the fracture, and involvement of the paranasal sinuses in the fracture. Debridement of fragmented bone, shredded and potentially contaminated dura, and devitalized brain was carried out in each patient in order to prevent infection and other complications. Complete removal of the fractured frontal sinuses was done at the same time, with exenteration of all mucous membrane above the nasofrontal duct. Any extradural or subdural hematomas present were evacuated. Dural defects were closed either with pericranial or temporal fascia grafts or with polyethylene film. Nine of the 10 patients received tantalum cranioplasty, 5 at the time of primary debridement and 4 at a later date. No serious complications developed in any of the patients, and there has been no permanent change in personality, intellectual capacity, or memory.

Frontal Skull Fractures

iser, G. C., et al., Surg., Gynec. & Obst., 10:133-140,1960.

Rader, J. P., Texas J. Med., 56:102-107,1960.

# Rapid Method of Finding Recurrent Laryngeal Nerves Safely During Thyroidectomy

A sound method must focus on a landmark that is always constant and itself easily found. The inferior horn of the thyroid cartilage fulfills these prerequisites. Using a collar incision the exposure should be started on the left side where the nerve has a simpler course than on the right. Drawing the left lobe medially and forward reveals and stretches a loose collection of areolar tissue lying between the carotid bundle and trachea. The covers the tissue recurrent larvngeal nerve. Next, find the landmark of the left inferior horn, which is masked by pharyngeal muscle.

To find the lower horn of thyroid cartilage, first find the cricoid cartilage in the operation wound. The right-handed will use the right index finger, which on the patient's left must point up the neck (the finger will point down the neck on the right side).

Beside, and touching, the cricoid, lay the right index lengthwise with its ulnar edge pressed against the vertebral column (covered by prevertebral muscle). The fingernail will then face laterally. Keep the finger pressing backwards with its ulnar edge; then rotate it clockwise very slightly till its pil begins to look forward. It mee at once the firmness of the low horn which the surgeon outlin even better when the larynx gently pushed across the midd line towards his right index.

Muscle fibers overlie the nen only in the uppermost 1/3 to inch of the trunk. At the tip the horn, press the ball of a de tal burnisher directly backward into the stretched areolar tissu Use the ball to open the tissu lengthwise for an inch. The nerve often appears at once. it does not, move the ball; that it will just touch the this edge of the esophagus. Direct ball backwards towards the ve tebral column. The convexity dorsum of the neck of the bu nisher then faces the nerve. Re tate the burnisher and its crow and ball will then engage the nerve. Very gently draw the bu nisher free from the opening the loose connective tissue.

The nerve, as a rule, is trieved. in company with branch of the inferior thyr artery, and nerve and vessel be coaxed apart by the less ball of the burnisher working one direction only, up the tient's neck. No other tool cle the nerve so safely, and none less likely to wound the esoph

Pisko-Dubienski, Z. A., Irish J.M. Sc., 40-44,1960.

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## Surgical Treatment of Cerebral Ischemia Caused by Extracranial Vascular Disease

In a study of 174 patients with cerebral ischemia, it was found that 42% had extracranial arterial occlusion. The internal carotid artery at the bifurcation of the common carotid was the most common site of obstruction, the left more often than the right. Severe occlusive disease may affect the carotid arteries. yet the intracranial vessels be near normal.

Symptoms after partial or complete occlusion of an internal carotid range from nil to massive and sudden (the classic "stroke"). Transient hemiparesis is common. As premonitory signs of hemiparesthesia, unilateral blindness, dizziness, or aphasis may be noted. Unilateral headache is fairly common. Fleeting neurologic symptoms from carotid disease are frequently passed off as being due to cerebral "vasospasm." Visual disturbances may occur when the head is turned. Head noises synchronous with heart beat have been also homonymous reported. hemianopsia. A partial or complete Horner's syndrome is fairly common, also diplopia and dysphagia. Dementia is common when both carotid arteries show occlusive disease.

Surgical treatment today is

divided between endarte rectony severand bypass graft. Six of 10 case uside treated were in persons in the is off sixth decade, one was a boy of form 15, all but one were males. The oblet duration of symptoms was from form 12 hours to one year. Endarter deci ectomy was done in all case mily. with the exception of one (n pair of an arteriovenous fistulal General anesthesia was used to the most part and in 2 cases, i addition, hypothermia.

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Five cases showed good result or complete recovery up to years. One died of an unrelate cause after a year and autom showed a patent carotid bifure tion with smooth endothelium; the site of endarterectomy. Three patients were not improved, a 2 died. In these cases no bad flow of blood was obtained after endarterectomy was done.

Taylor, F. H., et al., North Carolina M 21:173-179,1960.

# Symptomless Abdominal Aneurysm

Discovery of a symptomia e de abdominal aneurysm in course of a routine medical alts amination is becoming increase fut ingly common. Before the interest duction of methods of excision to s the abdominal aorta for and s b rysms and aortic replacement esen arterial grafting, the doctor y v justified in saying nothing to an Opatient and waiting perhaps to on, severe pain developed before nsidering surgical treatment, is often of doubtful value and formidable risk. The main oblem was that of witholding formation from the patient and deciding what to say to the mily.

Any aneurysm diagnosed by dominal palpation is fairly read and may rupture at any oment. Results of treatment of ptured abdominal aneurysms whether intraperitoneal or exaperitoneal) at a large general spital showed that 21 were cised, resulting in 15 deaths. nethird of those patients have aneurysm ruptured had prior symptoms.

Patients with a large abdomilaneurysm have lived normal d pain-free lives for many ars. For the past 3 years a licy of surgical excision for mptomless abdominal aneusm has been followed. To date enumber excised has been 20, the no operative or postoperate deaths. There is no reason suppose that these good relist cannot be maintained in efuture. Although the patients erated upon have been select to some degree, the operation s been refused only in the esence of some major and usuy very obvious contraindicant. Of the 20 patients operated on, one developed claudication

of his left calf 6 months after surgery with probable complete or partial blockage of the left limb of his aortic graft. His symptoms were so mild that re-exploration was not justified at the time but may be necessary in the future. The ideal age group for surgery is probably under 70 years, the oldest patient in this series being 75. Patients with a history of 2 or more coronary thromboses, or with angina or marked dyspnea on exertion, are not candidates for this operation. The patient must have evidence of adequate renal function.

Certain types are not mentally equipped to face the knowledge that they harbor what may be a serious and lethal condition which can only be corrected by a major operation. In such cases it would probably be best to postpone surgical advice, despite the risks of such postponement.

The abdominal aneurysm which can be detected clinically with reasonable certainty has probably reached a size which makes its removal advisable. The mistake most likely to be made is in diagnosing an abdominal aneurysm in a thin person when it does not exist, and missing quite a large one in an obese person. In either case, further investigation is required to provide the answer.

Key, J. A., Canad. M.A.J., 82:924-925,1960.

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Surgical Correction of Atria uptu Septum Defect in Patients v No Over 60 Clos

Congenital heart disease mowel be the cause of cardiac symptom ents in elderly patients, defect of the ry that atrial septum being the core ars, monest congenital heart less angeonallowing long-term survival. The number of the reported on in this study jumuall being aged 60 or older, and 3, all underwent successful sum eum cal correction of the intracardi urgic Rup defect.

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Symptoms were of recent of gin but had progressed rapid and were severe in most patient evidence of failure of the rid side of the heart being prese in 4 of the 5. Another featu uncommon in younger patien was atrial fibrillation in 4 these 5. All patients had i creased pulmonary artery pre sure, but only one had a hem dynamically significant rightleft shunt.

Surgical correction in su cases is clearly indicated in presence of significant sympton and a large pulmonary blo flow. Both the atrial-well meth and the open approach with e tracorporeal circulation employed successfully in the cases. All the patients surviv operation and were symptomal aref cally improved.

Ellis, F. H., Jr., et al., New Englar 4 J. Me 262:219-224,1960.

# upture of Small Intestine y Nonpenetrating Injury

Closed injury of the small owel was found in 9 of 124 parents with severe abdominal interpretated during the past 10 gers, an incidence of 7.2%. Ages anged from 18 to 64. The duotenum was injured in 2, the proximal jejunum in 2, the midejunum in 1, the terminal ileum at 3, and multiple sites of the geum in 1. All 9 were treated for ingically and 3 died.

Rupture should be suspected all abdominal injuries, espeially when caused by a steering olumn, a gear-shift lever, a lank of wood, a kick, or a shearog force across the abdomen. arly diagnosis being vital, these atients should be hospitalized r thorough examination. An ccurate history, particularly as type and severity of injury, is portant. Radiographic studies hould be made and may be elpful if repeated at intervals, ut a negative report cannot rule ut rupture of the small bowel. n increase in abdominal signs nd symptoms and a raised leuocyte count are suggestive of eritoneal soilage. Diagnostic parotomy is wise whenever here is any doubt after a reaonable period of observation. he bowel should be examined arefully and in sequence along s entire length.

horlakson, R. H., Canad. M.A.J., 82:989-995,

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# briefs: therapy

## juretic Efficacy: Assay of hlorothiazide and erallucide

The assay method used is deened to compare the 2 drugs, t for their "potency" but for eir effectiveness in clearing lema, data being supplied by ed-patients in congestive heart ilure maintained under conentional conditions of diet, salt estriction, and digitalization. A juretic agent is given daily or very other day, and patients re accurately weighed every 24 ours. The 2 diuretic drugs are iven in maximally effective oses in a sequence of patterns ABBA and BAAB) arranged to rovide paired responses free of ias, each response being the eight loss 24 hours after the ose. Since response time is the ame for all doses of both agents, he ratios obtained express the difference in the time it would ake to clear the edema if either lrug was used alone.

Assay in 22 patients showed hat, as compared to meralluride (Mercuhydrin) in 2-cc. intramuscular doses, chlorothiazide (Diuril) in 2-gm. oral doses is 40% as effective, taking 2½ imes as long to clear the edema. Whether slower or faster clear-

ing is desirable remains a matter of clinical judgment.

Gold, H., et al., J.A.M.A., 173:745-752,1960.

# Painless Hypodermic Injections

There is an area in the upper arm which is least painful to subcutaneous injections. This was learned after giving many selfinjections of pollen solution for hay fever. It is well known that those areas which seldom come in contact with other objects develop less nerve supply. Just as the palmar surface of the finger tip is much more sensitive to pain than the dorsal, there is a small area from one to two inches directly above the lateral epicondyle of the humerus that has less nerve supply and is less sensitive to pain.

Most subcutaneous injections are given in the middle, posterolateral surface of the upper arm. In this area, the nerve supply is abundant and injections are more painful. It is suggested that all subcutaneous injections, 2 cc. or less, be given in this area. Insert the sharp needle slowly (do not jab) and inject all medication slowly. Be gentle, do not rush, and do not appear hurried.

Fleming, T. S., Missouri Med., 57:726,1960.

#### Iproniazid for the Treatment of Alcoholism

After a bout of heavy drinking there may follow a period of sadness, remorse, and guilt difficult for the patient to tolerate. Some patients become deeply morose, have severe anorexia and troubled sleep, and feel left out of life, unable to communicate with friends or members of their families. Sedatives do not always help, vitamins fail to stimulate appetite, and moodelevating drugs of the ephedrine type only increase anxiety. If the medicaments prove fruitless after days and weeks of treatment, the patient frequently resumes drinking, or is referred to a psychiatric hospital.

A type of depression, seen after a minor drinking bout, occurs in persons with ordinarily acceptable behavior. This patient worries about his lack of control and will power, may doubt his sanity, and may entertain ideas of self-destruction. Most patients of this type usually recover as easily as do those of the first type. Ordinarily only the use of safe and standard medicencouragement, realistic optimism are required to help patients of these two groups.

A third type drinks as an escape from depression over family troubles, loss of job, and oth-

er problems. The drinking perio lise of may be short. By the time the Agentic patient sees a physician, he is Indiclose to the point of despair. If hapy we refuses to become an in-patien clude and if there is not enough time with stoobtain a legal commitment, he not may be willing to try a few day quent of medical treatment. These a mally coholics should be seen daily thicin be given encouragement and and a consolation and to have drunced therapy adjusted.

Administration of iproniazion no (Marsilid) is beneficial in case acks of alcoholism when history as create physical examination show free arriedom from past or present seriou lange liver involvement. The drug in the given with pyridoxine. Twent ibility patients with severe depreciding sion, all alcoholics of long stant inizing, were given iproniazid in ingiverying dosages. Sixteen of less tained fair to excellent result py is All those chosen for this treatily ment were shown by history and gross physical examination to be ableting free from liver disease. None described by the serious although two patient wice quickly resumed drinking. The price of complications with the drug is much less than is that the death or extensive hospitalia houltion due to continued drinking idual High dosage increases the effectiveness of iproniazid.

Travis, J. C., J.A.M.A., 172:909-912,1960.

hici

# Use of Newer Uricosuric Agents

Indications for beginning therpy with a uricosuric drug inlude tophaceous deposits, gout with sorum urate level consistently above 8 mg.%, and frequent attacks despite a maximally tolerated daily dose of colhicine. Sulfinpyrazone (Antunan) and zoxazolamine (Flexin) increase urate excretion, but like probenecid (Benemid) they are in no value in treating acute attacks of gouty arthritis. The greater potency of these agents sarries a correspondingly greater langer of precipitating uric acid in the urinary tract. Such a possibility can be minimized by progiding a high fluid intake, alkadude ophaceous deposits, gout iding a high fluid intake, alka-inizing of the urine, and begin-ing therapy with low doses of hese drugs. Sulfinpyrazone therby is begun with 50 mg. twice ally, gradually increasing to 100 mg. 4 times daily. The smallest ablet of zoxazolamine available 250 mg., far greater than is equired for uricosuric action. nitial dosage should be ¼ tablet wice daily, gradually increasing to ½ tablet 4 times daily over period of 2 weeks. The maintenance dose of uricosuric agents hould be adjusted to meet inditidual needs and is governed by the reduction of serum urate and to normal Maintenance columns. evel to normal. Maintenance col-nicine is helpful in preventing acute attacks of gout that frequently accompany the institution of therapy with uricosuric agents.

Seegmiller, J. E., & Grayzel, A. I., J.A.M.A., 173:1076-1080,1960.

# Treatment of Obesity

Patients should be told by their physicians that obesity results from a disturbance of "life." Just as there are a few individuals who turn away from food (and acquire anorexia nervosa), there are millions who turn toward food. More obese patients would be helped with good instruction and encouragement than with simple dietotherapy. By no means all fat people should see psychiatrists, rather, the general practitioner should undertake this management and persevere in it in the full expectation of succeeding in the great majority of cases of patients who approach the problem honestly and cooperate faithfully.

The question remains as to whether the physician should prescribe anorexigenic drugs. If these are given, the statement should be made that "This drug is not the answer to your problem, but it does help some people for a few weeks or months." In most cases, the physician should ask his patients to help him in trying to get at the cause rather than at the symptoms.

Rynearson, E. H., Minnesota Med., 43:348-349, 1960.



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## rolithiasis in Childhood

Urinary calculi were observed 3 children, a boy of 2 admitted th a history of fever for 4 days d several bouts of painless heaturia, a girl of 3 with no sign cept recurrent painless hemaria, and a girl of 12 with suden onset of colicky abdominal ain. Intravenous pyelography infirmed the diagnoses and all covered uneventfully after urgical removal of stones. Calulous disease in infants and hildren occurs frequently nough to be included in the diferential diagnosis of many atvoal childhood illnesses. Persistnt pyuria, hematuria, and pain long the urinary tract are carinal indications for complete rologic investigation.

elta, B. G., & McKendry, J. B. J., Canad. M.A.J., 82:352-355,1960.

## ignificance of Blood n the Urine

The commonest causes of hematuria between one and 5 years are (in order of frequency) cystitis, pyelonephritis and glomerulonephritis. The commonest malignant tumor of the kidney in this age group, Wilm's lumor, causes blood to appear in

the urine (in one series in 18% of such patients). A mass palpable in the renal area is usually the first indication of the presence of this malignant growth, an unexplained fever possibly being the only symptom. Neoplasms of the bladder are unusual in children. In infant boys an ulceration of a stenosed urethral meatus is a frequent cause of bleeding.

In children aged 5 to 10, the causes in order of frequency are glomerulonephritis, cystitis and pyelonephritis. In both sexes inflammatory lesions with cystitis and pyelonephritis are the most frequent causative factors from ages 11 to 30. Occasionally, calculous disease or a papilloma of the bladder is the cause.

Inflammatory lesions continue to predominate between ages 31 and 40. In men of this age group, the second most frequent cause is papilloma of the bladder, the third, renal calculi. In women of this age group, inflammatory lesions of the urinary tract continue to be the principal etiologic factors, calculous disease being next and papilloma of the bladder last.

In men aged 41 to 50, bladder papilloma and carcinoma are the



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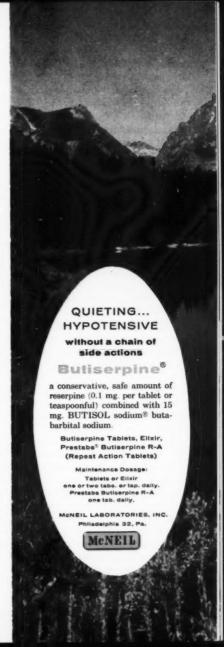
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rincipal causes, followed by caluli and inflammatory lesions. hese last retain the major role this age group in women, calulous disease and neoplasms of ladder having minor roles. Neolasms of kidneys or bladder, fore frequent in patients past 40, may occur at any age.

In men age 51 to 60 the causes is bleeding in descending order frequency are neoplasm of the ladder, hypertrophy of the protate gland, carcinoma of the rostate gland, and cystitis. In somen of this age group, the escending order of frequency is explasm of the bladder and cystitis.

In men aged 61 to 70, prostatm (benign or malignant) is the lost frequent cause, then neolasm of the bladder and inflamnatory lesions. Neoplasm of the ladder and cystitis assume the lajor role in women of these ges.

Hematuria demands immedite investigation including cysscopy. Cessation of the bleeding and lack of other symptoms on not minimize the gravity of the condition. The public must ecome cognizant of the serious spects of hematuria and must e advised to seek immediate medical counsel when it is first bserved.



liggins, C. C., West Virginia M.J., 56:94-96, 1960.

## Intrascrotal Swellings: Differential Diagnosis

Begin by palpating the side of the swelling, remembering that the tunica vaginalis lies close to the testicle. Then, palpate the opposite side and compare the two. Next, palpate the epididymis head, body, and tail-then the vas deferens both sides at the same time. A normal spermatic cord feels like a hard window cord, and one can feel several other thin cords and stringy fibers of the cremaster muscle.

The translucency test is made by making the intrascrotal swelling tense, grasping the neck between the thumb and two fingers while the other hand holds a flashlight to the distal side of the swelling. In uncomplicated hydrocele, transillumination will make the whole tumor glow with a pinkish light. The hand grasping the scrotal neck must keep fluid from collecting at the back or bottom of the sac by squeezing it up above the testicle. This test will fail if the scrotal walls are very thick or calcareous. If it is impossible to get above the swelling, the lesion is probably a hernia and not cancerous.

A vaginal hydrocele lies in front of and, to a variable degree, above the body of the testicle. Since a secondary hydrocele may be covering serious disease underneath, in case of doubt, aspirate the fluid and do a Papanicolaou test on it. The uncover rellin testicle can now be palpater. The freely but always with great calcificand gentleness. Malignars cygrowths seldom produce hydrogram aran cele, but no chances should be a taken of distributing cancer cele the should any be present.

should any be present.

A secondary hydrocele almone to always accompanies acute colous subacute orchiepididymitis and amministyphilis of the testicle, and abousis one-third of the cases of testing ache lar tuberculosis. A cyst of that it epididymis is a tense, transluce ign, a swelling which feels lobulated a regularation. palpation. ll the

A spermatocele is also transh uspic cent, outlined as an epididym ne la cyst, its fluid less clear. It usual irwin, ly lies above the testicle, an 1959.

when it is pushed downwan euro and the fluid is aspirated, special hard matozoa will usually be found. Var In epididymo-orchitis the enclude: tire gland is enlarged and tends. 1. The and the vas thickened. A histor thickened arge,

of an attack of mumps often et arge, plains this swelling.

Tuberculosis anywhere in the genitourinary tract is always see rome ondary to primary lesions else 2. To where. A tuberculous epidide lex he mis will show a craggy outline when transillumined, with the vas greatly thickened, swelling the restricted within the scrotum limited sults Syphilis of the testicle is hard painless, and freely movable.

Most dreaded of all scroti ways

rellings is that caused by canter. The swelling is opaque. A cliffied cyst, lipoma, or sebacets cyst will give a similar appearance, even after the fluid has been aspirated and the interior the swelling exposed to full ght. An old clotted hematocele the to trauma, an atypical tuberalous lesion, or, rarely, a luetic mma may be deceptive. Diagosis of cancer of the testicle is eached largely by exclusion, but it it can be proved to be beign, any scrotal swelling should be regarded as cancerous. When I the tests have been made and spicion of cancer still remains, he last resort is biopsy.

irwin, T. J., New York J. Med., 59:879-880, 1959.

## eurogenic Bladder: haracteristics and Treatment

Varieties of this defect in-

1. The atonic bladder, which is vithout sensation, flaccid, very arge, and loses urine by overlow. It results from interruption of the sacral spinal reflex arc or from spinal shock.

2. The autonomous, or nonrelex bladder, which is variable in apacity, with muscle contracion inefficient and uncoordinatid, residual urine usually being resent in large amounts. It reults from interruption of the imple reflex arc with destrucion of sensory and motor pathways. 3. The automatic, or reflex bladder, also without sensation but with good muscle tone, empties itself reasonably well. It is seen with complete interruption of cerebral control, the spinal reflex being intact. Frequent and urgent voiding, small capacity, little or no residual urine, enuresis and precipitate voiding are characteristic.

Management is directed toward providing the best possible emptying while preserving the integrity and function of the upper urinary tract. Atonic bladders and overflow incontinence require continuous drainage with an 18 F. latex Foley catheter. Intermittent distention and emptying of the bladder is required to maintain muscle tone, and prophylactic medication to prevent acute urinary infection is required.

Transurethral resection of the vesical neck to remove even the slightest degree of obstruction, or to weaken the bladder outlet, may allow a bladder to empty itself. Interruption of the nerve pathways may be of value, and sacral neurectomy or rhizotomy may relax spastic perineal musculature (allowing more satisfactory voiding). Pudendal neurectomy may be of value in upper motor neuron lesions, effecting relaxation of the vesicle neck.

Malashock, E. M., Nebraska M.J., 45:59-61, 1960.

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# legal medicine

# octors and the Law

CHARLES J. FRANKEL, M.D., L.L.B., Editor

Is corporation, whose membership principally confined to fellows in od standing of county medical or strict dental society, a "social club" thin section of Internal Revenue de which imposes excise tax on its or membership fees paid to "sollub?"

The U.S. District Court. outhern District assed on this question in Docrs' Club of Houston, Texas vs nited States, 183 F. Supp. 152 1960). Plaintiff club's memberip is principally composed of octors and dentists who are felws in good standing of the Hars County Medical Society or e Houston District Dental Soety. Qualified persons residing atside the county may become paresident members if in good anding in their local medical or ental society. Club also has honary members. The initiation e for resident and nonresident embers is \$35 or \$200, dependg upon years of membership in cal medical society. Monthly ues for resident members are \$10: dues for nonresident members are \$15 per year. Honorary members pay no initiation fee or dues. Section 4241(a) (1) of the Internal Revenue Code imposes an excise tax "equivalent to 20 percent of any amount paid as dues or membership fees to any social . . . club or organization, if the dues or fees of an active resident member are in excess of \$10 per year." The law regards honorary members as life members and assesses the tax against the club. This suit was to recover tax collected from plaintiff on dues imputed to honorary members.

Club leases space on third floor of building in Texas Medical Center. Its facilities consist of a main dining room, lounge and bar, kitchen, and manager's office. On same floor of building are an auditorium seating 600 persons and two conference rooms of which it has the use. Club is open daily except Tuesday, and serves lunch and dinner during certain hours. Pur-

pose of club was to establish a convenient, centrally located meeting place where professional men could gather to exchange ideas and discuss and evaluate advances in medicine. Forty-six separate medical and dental organizations use the club quarters as a meeting place.

Club's social activities center around dining room, lounge and bar. Members can drink on premises only if they join locker pool which charges for each drink plus a service charge; club charges locker pool a monthly rental. Saturday night dances and New Year's Eve dances, sometimes in conjunction with food, are held at club. Any conflicting medical function has priority over Saturday dance. During football season, club organizes expeditions, including meal and bus service, to Rice Institute games. Club's dining facilities are used extensively by ladies but not always for social activities. Meetings of auxiliaries of various medical groups, nursing staffs, and female doctors, dentists and technicians are held on premises. Four style shows have been held but only in connection with luncheon meetings of auxiliaries for fund raising purposes.

Whether a club is to be classified as social or as business or professional depends on whether social features are organization main purpose or only incident thereto. Each case must judged on its own facts. The Court said there certainly wa sufficient evidence of a predom nant scientific and profession purpose to facilitate interchange of ideas through personal con tacts and group meetings. The club has few of the usual tra pings of a social club; its dini and lounge facilities are limite and it has no rooming or athlet facilities. Its membership quirements are professional, n social. The fact that club serve food and drink does not make a social club. People eat whether at work or at play and, thou some consider drinking esse tially a social function, man consider liquor a natural con comitant of meals and desire while engaged in social or pr fessional activities. Substant use of club facilities by ladies considered a mark of a soci club. However, it is difficult he to separate activities of auxil ries and other groups, engage in charitable or professional deavors, from the ladies' pure social activities. The dances football expeditions are adm tedly social activities but constitute only 10-16% of clu activities on basis of number participants. The Court said was apparent that club's so

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contrainties: The precautions and contraindications that apply to all pids should be observed.

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activities were merely incidental to its predominant professional purpose and that excise tax on honorary membership should, therefore, be refunded.

► Is expert testimony as to possibility of causal relation between given injury and subsequent death sufficient to establish such relation?

This question was before the Washington Supreme Court in Bland vs King County, 342 P. (2d) 599 (1959). Patient, while being moved from bed to wheel chair, was negligently allowed to fall to floor by defendant's employee. Patient suffered fractures: six days later he died. Plaintiff argued that the fractures caused shock which lowered patient's blood pressure to such an extent that fall was contributing cause of coronary infarct which resulted in his death. Expert witness for plaintiff testified that fractures can produce shock which could lower the person's blood pressure and that this drop in blood pressure could bring on heart attack, if person had weak heart, which would result in death.

Defendant contended that expert's testimony was not sufficient to establish causal relation between patient's fall and his death. The Court said that medical testimony as to possibility of causal relation between given injury and subsequent death is insufficient to establish such relation. By testimony a to possibility is meant testimons in which witness asserts that in jury "could have" or "migh have" caused the death, that is testimony which is confined to the possibility of the causal re lation's existence, with no indi cation of its probability or like lihood. Verdicts cannot rest or speculation and conjecture. Expert's testimony here was noth ing more than assumption pyra mided upon assumption, amount ing to nothing more than conied ture and speculation.

► Is surgical nail a "device" within meaning of Federal Food and Dru Act which prohibits misbranding devices? Was surgical nail used operation on plaintiff's leg misbrand ed? If surgical nail was misbrande can plaintiff recover from its manuative facturer for damages caused by mis branding?

stre The U.S. Court of Appeal of p Fourth Circuit, had these que ntial tions before it in Orthoped tion Equipment Company vs Eustle asa 276 F. (2d) 455 (1960). Plain pted tiff suffered leg fracture to n si which surgeons decided property to tal v treatment was intramedullar nailing using a Kuntscher Clow erleaf Intramedullary Nail. A tea ter preparing medullary canal use of 9 mm. reamer, doctors be seed gan to insert a Kuntscher Clark gan to insert a Kuntscher Clo erleaf Intramedullary Nail man blied



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factured by defendant. Nail had "OEC 9x40" imprinted on it signifying its dimensions. As nail was driven down canal of upper fragment of thigh bone, doctors at first met normal resistance. Although greater resistance was encountered when it penetrated further, doctors did not regard this as unusual since they knew they had used 9 mm, reamer and nail was marked to indicate 9 mm. They concluded it must have met some slight obstruction which would be passed or overcome without difficulty, and accordingly struck several slightly heavier blows. When nail still progressed no further, doctors decided to remove it. After efforts to remove nail failed. portion protruding below canal of upper thigh was cut off, the wound closed, and a cast applied in the hope that bone would atrophy sufficiently in a few weeks to loosen nail and permit its withdrawal. Attempt, a month later, to extract nail failed. Nail was finally removed month later. Measurements of cross-sections of the nail varied from 9.27 mm. to 10.12 mm. Because of nail's impaction, incurable osteomyelitis resulted. Plaintiff has permanently lost the use of his leg and its ultimate amputation is expected.

Complaint alleged that nail was misbranded in violation of Federal Food and Drug Act. Descriptions are fendant contended that the Are is does not apply to surgical nail adde marketed for use only by skills akes surgeons. "Device" is defined a react as, "instruments, apparate out and contrivances... intended. cient to affect the structure of are much function of the body of man... earl The Court said this definition as in was clearly of sufficient bread to include a surgical nail, whice resisting the court is a signed to and does affect by the body's structure and function. ola

Defendant further contends ne that evidence was insufficient inia raise jury question as to whether a raise jury question as to whether a rail was misbranded. The hich nails have imprinted on the on it two figures, e.g., 9x40, 10x42, busen the imprint does not explain forug ures' meaning. Parties agree n that larger figure represent that larger figure represent the value of the pert witnesses for plaintiff test at the fied that the prevailing interpretation of the profession of the cross-sectional dimension, is on printed on the nail, was that exceeded the profession of the profession of the profession of the printed on the nail, was that exceeded the profession of the printed on the nail, was that the could be inserted into a horizontal profession of the pr made with a reamer bearing per diameter measurement come not sponding to the number appear as ing on the nail. Defendar ff's argued that measurement neco lated to the reamer, which less to various uncertainties: ream utit early warranted in finding nail it as misbranded.

add Although the Act does not exhic ressly provide a civil remedy removed in absolute duty on manufactors not to misbrand their roducts. Question is whether iolation of this absolute duty and negligence per se under Virtum law, the governing law of at this law, the governing law of act he case. Other state courts he shich have passed on this ques-he on in cases involving state laws be sembling the Federal Food and fa rug Act have held violations to ree e negligence per se. Although the Virginia court has not passed En the question in relation to est ate laws relating to misbrand-prog, it has done so as to other thatutes and has held that violain on of a statute is negligence at er se. Therefore, it was proper the rese. Therefore, it was proper holor trial judge to charge that agreene was negligence per se and, are note jury found that violation earlies proximate cause of plain-day ff's injury, he was entitled to a ecover from the manufacturer.

Instructions accompanying tetanus attitusin distributed by State Depart-

ment of Public Health stated that, although there was considerable difference of opinion as to which of three recognized methods of administration was best, two were generally recognized as far superior. Can state be held liable for injuries resulting from injection given by one of "superior" methods?

New York The Supreme Court, Appellate Division, passed on this question in Gielskie vs State, 200 N.Y.S. (2d) 691 (1960). Instructions accompanying tetanus antitoxin distributed by state said that there were three recognized methods of administration - intraspinously, intravenously, and intramuscularly - and that, although there was considerable difference of opinion as to which was more effective, the intraspinous and intravenous were generally recognized as far superior. Plaintiff, who had suffered compound comminuted fracture of finger while participating in horse pulling contest with which state had no connection, was given intraspinous injection of state-distributed antitoxin by his doctor. As result of injection, plaintiff is now permanently and totally paralyzed below tenth vertebra. It is undisputed that the introduction of any foreign substance into spinal canal would have caused the disastrous result.

Plaintiff contended state was

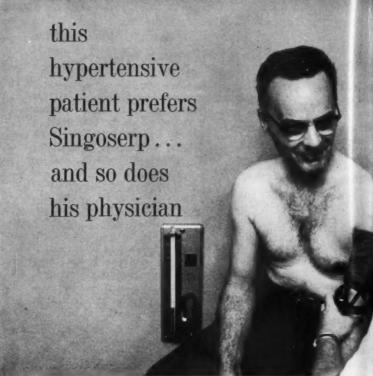


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Patient's comment: "The other drug [whole root rauwolfia] made me feel lazy. I didn't feel in the mood to make my calls. My nose used to get stuffed up, too. This pill [Singoserp] doesn't give me any trouble at all."

Clinician's report: J. M., a salesman, had a 16-year history of hypertension. I In pressure at first examination was 190/100 mm. Hg. Whole root rauwolfia of 10 pressure to 140/80 — but side effects were intolerable. Singoserp, 0.5 mg. daily, if ist reduced pressure to 130/80 and eliminated all drug symptoms.

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gligent in stating that intranous and intraspinous methls of administering antitoxin ere far superior. Plaintiff's exerts agreed that, prior to 1954, traspinous method was generly considered the most effecve, but added that by 1954, the ear plaintiff was injected, mediuse of greater risk of introinal canal. The Court said the cord showed that medical opinand text books differ on the bject. Following one field of spectable medical opinion. ough other, and perhaps more merous medical opinions may ffer, does not constitute neglince simply because result was sastrous in particular case. To old state liable under circumances presented here would ean either that state must ren-er no public service at all or be in insurer against any bad re-lts that might follow.

In criminal prosecution, is it propto allow qualified clinical psycholist to testify, as expert, as to his
inion of defendant's sanity based
results of psychological tests?
that standards must be met by clinal psychologist to qualify as expert
ilness?

The Supreme Court of New fexico passed on these quesons in 1960 in State vs Franco, 7 P. (2d) 312. Defendant was

charged with murder and kidnapping; the defense was insanity. Several psychiatrists, who had examined defendant, testified for the prosecution and for the defense on question of his sanity. Witness for the state, a clinical psychologist, was allowed to state his opinion that defendant was sane; his opinion was based on results of certain psychological tests made with respect to defendant.

Defendant contended that only physicians, surgeons and psychiatrists are competent to give an expert opinion as to sanity and that it was, therefore, error to permit the clinical psychologist to testify as an expert. The Court said there is no magic in particular titles or degrees and, in our age of intense scientific specialization, we might deny ourselves the best knowledge available by a rule that immutably fixes the educational qualifications to a particular degree. Although they have their limitations, psychological tests administered by a qualified and experienced psychologist make a valuable contribution to the total psychiatric examination of a criminal suspect. Therefore, properly qualified psychologist may testify as an expert as to his opinion, based on results of tests made by him, as to criminal defendant's sanity.

Defendant further contended that psychologist who testified was not properly qualified. The Court said that determining the qualifications of an expert is a matter for trial judge's sound discretion. The witness stated his qualifications as to education and practical experience. However, there is nothing in the record indicating that trial judge had before him any standard by which to compare witness' qualifications with those of qualified psychologist. The Court said that, according to the authorities in the field, the minimum qualifications for a psychologist before being allowed to testify as an expert is that he has had at least five years of postgraduate training in clinical psychology.

has a Ph.D. and has spent: least one year as a psycholog interne in a mental hospital a proved by the American Psych logical Society. A psychological who did not satisfy all these quirements might, because of a ceptionally broad training a experience, be qualified to test fy as an expert, but he should permitted to testify only after searching inquiry into his qual fications and the extent of knowledge. The witness here h no Ph.D. and lacked the quired postgraduate training and the necessary experience an approved mental institution He should, therefore, not have been permitted to testify as expert.

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## Leukocyte Alkaline Phosphatase: Assay in Disorders other than Chronic Granulocytic Leukemia

Assays in more than 100 patients demonstrated that low leukocyte alkaline phosphatase activity may be found in a variety of hematologic and nonhematologic diseases and is not pathognomonic of chronic granulocytic leukemia. Although this enzymatic activity was found to be consistently very low only in paroxysmal nocturnal hemograph binuria, low values were four in some patients with other eases such as idiopathic thro bocytopenic purpura, myelo metaplasia, infectious mononi leosis, pernicious anemia in lapse, collagen disease, and fractory or aplastic anemia.

Tanaka, K. R., et al., New England J. M. 262:912-918,1960.

# he Doctor Builds His Estate

Prepared monthly for the readers of Clinical Medicine by the Research Department of Bache & Co., 36 Wall Street, New York 5.

These monthly articles point out to method by which the physician my overcome the handicap imposed on him by taxes on the bulk of sincome at normal rates, as operated to the capital gains tax open many business men. One solution systematic investment of current come in securities.

The question of value in the ock market is often an elusive ncept to pin down. With the nchant for growth stocks in gue for much of the last decle, there has been a tendency bid up the shares of companies nose profits and dividends offer tle attraction for the near term at whose stature within a parcularly promising industry apsome fairly distant date. Of urse, when one deals with the eight to the uncertainties inblved, and the higher the valution given to the so-called rowth" stock, the stronger is e evidence that these uncertainties are not being taken into account.

During the 1950's, with an almost steadily expanding economy, these long range projections were frequently attained, and the advocates of high multiples for growth stocks were in the saddle. However, toward the close of the decade, and particularly in this first year of the 1960's, the U.S. economy has been slowing down. Thus, the outlook ahead does not seem as clear-cut as it did some years ago. Thus, there has begun a slow but perceptible reappraisal of the high valuation school and a tendency to seek the more stable companies who offer the sanctuary of established products, of consumer acceptance and of surer growth.

We have prepared a study of five companies in widely diverse fields whose products are well seasoned, whose earnings records have been comfortably upward and whose price at current levels would appear to offer reasonable value.

#### Anheuser-Busch

The first company for examination is Anheuser-Busch, one of the oldest and largest breweries in the country. The company produces and distributes premium-priced Budweiser and Michelob draught beer on a national scale, and since 1955, its popularly priced Busch Bavarian has achieved excellent penetration in 15 southern and midwestern states. While beer sales constitute 85% of total volume, Anheuser maintains a fifth ranking industry position in the production of corn syrups and starches, and stands second in the manufacture of yeasts and malts. The company also controls the operations of the St. Louis Cardinals baseball club and owns Busch Stadium in St. Louis.

The company's excellent growth record since 1955 can be seen from the sharp increase in barrels of beer sold from 1955 to 1959 (5,616,793 to 8,064,756), from the spiral in dollar sales (1955: \$201,718,743 to 1959: \$295,992,022), and from the rise in per share earnings (1955: \$1.67 to 1959: \$2.69). We anticipate earnings of \$3.15 to \$3.25 for 1960.

Much of Anheuser's growth has come about as a direct result of its capital expenditure program. The new 500,000-barre Tampa plant came on stream in March of 1959, and wa subsequently expanded to a 800,000-barrel capacity. Presen construction will increase the Los Angeles plant to a 1.5 millio barrel annual rate and brin total productive capacity above the 10.5 million barn mark. Still not adequately equip ped to provide for anticipate future demand, a propose Houston brewery is now in the planning stage.

This dynamic expansion pro gram has done much to improve the company's earnings picture First, increased capacity has a abled it to penetrate the nation market more effectively and di perse operations in order to cur large transportation costs. New it allowed the company to intr duce the highly successful Bust Bavarian beer, thus providing retail outlets with a line of proble ucts in every price range. The too, operating economies effects have improved profit margin thus offsetting constantly rising costs. The return on capital is vestment runs around 10% a is excellent, indeed.

mi

Expansion has been and wi continue to be financed without common stock dilution. Depres ation allowances generate vehigh cash earnings, and this yearnings. cash flow per share should



letracycline now combined with the new, more active ntifungal antibiotic—Fungizone—for broad spectrum herapy / antimonilial prophylaxis

New Mysteclin-F provides this added antifungal protection at little increased to your patients over ordinary tetracycline preparations.

tailable as: MYSTECLIN-F CAPSULES (250 mg./50 mg.) MYSTECLIN-F HALF STRENGTH APSULES (125 mg./25 mg.) MYSTECLIN-F FOR SYRUP (125 mg./25 mg. per 5 cc.) YSTECLIN-F FOR AQUEOUS DROPS (100 mg./20 mg. per cc.)

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# **MYSTECLIN-F**

uibb Phosphate-Potentiated Tetracycline (SUMYCIN) plus Amphotericin B (FUNGIZONE)

QUIBB



Squibb Quality - the Priceless Ingredient

"MYSTECLIN", "SUMYCIN" AND "FUNDIZONE" ARE SQUISS TRADEMARKS

#### ANNEUSER-BUSCH

Approximate Price35	Capitalization (6/30/60)
Dividend	Long-Term Debt\$24,788,00 Common Stock4,876,791 she
TradedO.T.C.	

around \$5.40. At 1959 year-end, current assets were 4.8 times current liabilities and cash alone was 1.6 times the current liabilities figure.

The company's history is impressive enough in itself, but when considering all the unfavorable factors affecting the brewing industry during the decade of the fifties, the record compiled is clearly excellent. Over the last 10 years, total consumption of beer remained virtually static, reflecting the actual decline in the greatest beer drinking segment of the population, namely, the 21 to 40 year age group. By 1970, however, the bumper crop of war babies will push the number of people in this group up about 12%, and the increase in total beer consumption is expected to rise more than proportionally. While we do not take these statistics to classify breweries as a real growth industry, we do feel that the future remains bright for selected companies within the group who have established a leading market position, maintained a consistently strong balance sheet, planned for adequate expansion of facilities and demonstrate substantial earning power. heuser-Busch is such a compar

#### Wurlitzer

Our second company for rusal is Wurlitzer Company, country's largest and one of oldest music houses. The co pany is projecting 1961 earning at \$1.85-\$2.00, up from the \$1 reported for fiscal 1960, and t shares appear undervalued current levels. Six-month ear ings for fiscal 1961 were only 2 vs. 30¢, but the last half is the ditionally the company's strong est.

ch

Fifty per cent of the company operations comes from the ver stable sales of pianos and the far ette growing sales of organs. Produ tion in these areas has be uppl stepped up in anticipation of sub-Hisc stantially increased demand. As one a side line to its musical instruction ments division, the company hand introduced a new electronic vice called "Side Man" which ten adds authentic rhythm effects any musical instrument played His This innovation has proved to so popular that Wurlitzer



te of pHisoHex for washing the skin augnets any other therapy for acne — brings etter results. Now, pHisoAc Cream, a ew acne remedy for topical application, uppresses and masks lesions — dries, els and degerms the skin. Together, HisoHex and pHisoAc provide basic omplementary topical therapy for acne.

to HisoHex, antibacterial detergent with 3 her cent hexachlorophene, removes soil and oil better than soap — provides de mitinuous degerming action when used in the phisoHex is nonalkaline, nonirritating and hypoallergenic.

then pHisoAc Cream is used with HisoHex washings, it unplugs follicles, helps prevent development of comedones, pustules and scarring. New pHisoAc Cream is flesh-toned, not greasy. It contains colloidal sulfur 6 per cent, resorcinol 1.5 per cent, and hexachlorophene 0.3 per cent in a specially prepared base.

A new "self-help" booklet, Teen-aged? Have acne? Feel lonely?, gives important psychologic first aid for patients with acne and describes the proper use of pHisoHex and pHisoAc. Ask your Winthrop representative for copies.

pHisoAc is available in 1½ oz. tubes and pHisoHex is available in 5 oz. plastic squeeze bottles and in bottles of 16 oz.

HisoHex and pHisoAc for acne



barely meet the present demand, and while full development of the line will take some time, net operating profit has been satisfactory to date and long-term prospects in this area are excellent.

Wurlitzer also operates retail musical stores and manufactures coin-operated record players. While no accurate statistics are available, the company believes it makes and sells more juke boxes than any of its competitors. In this field, foreign operations have been very successful. and while competition abroad remains keen, business is very profitable and good overseas growth is expected as a result of expanded sales efforts. Another very profitable segment of the business is the recently-formed Wurlitzer Acceptance Corporation. In addition to bringing in additional revenues, this subsidiary has substantially reduced the amount of money needed to operate the parent company, which does a large percentage of its business on the installment basis.

Wurlitzer's decision three years ago to diversify into the field of missiles and electronic components resulted in an addition to gross revenues of approximately \$3 million in fiscal 1960. This figure was up from the \$800,000 added in the first year of operations, and results for the year ending March 31. 196 could see sales of this di vision double the 1960 level The company has patents of several commercial items which look promising and has recent ly developed a classified com ponent which is used in the manufacture of all missiles that the product is not subject to the vagaries of Governmen contract cancellations. This divi sion has just signed a \$1.7 mil lion contract and its backlog no stands at about \$7 million. The company, after suffering a se back in 1958, has forged ahead Sales in 1960 were 16% ahead the previous year and earning saw almost a 31% boost from 1959 to a level topping the 195 peak. Profit margins are up as result of a successful cost re duction program and can be espected to reach even higher les els over the long term. A \$25 plus per share earnings rate b fiscal 1962 is not an unreasonable expectation. The company's f nancial condition is strong an the balance sheet shows working capital at about \$25 per shan and a cash position of about \$ per share.

Following the 1960 annushowing of the company's new product lines, the number of orders placed was twice that of the previous record year, an indication of wide dealer acceptant ant icholinergic **KEEPS** THE STOMACH REE OF PAIN

tranquilizer **KEEPS** THE MIND OFF THE STOMACH



Milpath acts quickly to suppress pain and spasm, and to allay anxiety and tension with minimal side effects.

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IN TWO

POTENCIES:

Milpath-400 - Yellow, scored tablets of 400 mg. Miltown (meprobamate) and 25 mg. tridihexethyl chloride. Bottle of 50. Dosage: 1 tablet t.i.d. at meeltime and

2 at bedtime.

Milpath-200 - Yellow, coated tablets of 200 mg. Miltown (meprobamate) and 25 mg. tridihexethyl chloride. Bottle of 50.

Dosage: 1 or 2 tablets t.i.d. at mealtime and 2 at bedtime.

Milpath

Miltown +anticholinergic

WALLACE LABORATORIES Cranbury, N. J.



#### WURLITZER

Approximate Price15½	Capitalization (3/31/60)
Dividend80¢	Long-Term Debt\$5,267,000
Yield5.2%	Common Stock 886,356 shs
Traded	

and a sign which augurs well for successful full-year results. While first-quarter earnings of 9¢ per share were down slightly from the 13¢ reported for the first quarter of fiscal 1960, the decrease is without meaning for the first quarter is an insignificant period in relation to fullyear results. Continued growth is anticipated from both domestic and foreign operations.

At current price levels, the stock is much cheaper relative to earnings than other musical companies, and as earnings power increases we believe a revision of the price-earnings multiple will occur. Moreover, the dividend at an 80¢ annual rate (plus 3% stock in 1959) provides a reasonable vield. Purchases are recommended for investors seeking current income and future appreciation.

# **Wellington Management**

Our third company is the Wellington Management Company, which acts as advisor to the Wellington Mutual Fund and the Wellington Equity Fund. Mutual funds have, of course, experienced phenomenal growth

certa from 1941 to 1959. During this period, the assets of the mutus mana fund industry rose from les strate than \$500 million to \$15.8 billion sound as of December 31, 1959. During ion this 19-year period, investor ollow purchased \$13.4 billion mutual of infund shares. During the same he a period, \$4.8 billion of shares was affair

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period, \$4.8 billion of shares wa redeemed, so that the net flor of capital into mutual funds from 1941 to 1959 was \$8.6 billion.

Mutual funds are simply the vehicle through which the map from ager-sponsor offers its investigant ment services (its product) to 1 the public. A mutual fund usual sidant share or related organization ingue (1) an investment advisory and bine (1) and (1) an investment advisory and bine (1) and (1) an investment advisory and (1) and (1) and (1) an investment advisory advisory advisory advisory advisory advisory adv (1) an investment advisory and bine management contract, and (2 were an underwriting or distribution the scontract. Both such contracts are lic in provided for under the Investment Company Act of 1940, with certain safeguards to protect the bronchedders of the fund. These shareholders of the fund. Thes two contracts are the most in Wel ment company. Conversely these same contracts are the most important assets of the fund the because they give the fund the services of an organization the

provides investment know-how. general administration, and a flow of new capital. Therefore, lthough the contracts have to e renewed annually, by the and/or its directors, this enewal is ordinarily a virtual ertainty, assuming that the manager-sponsor has demontrated its ability to provide sound management and distribuion accomplishments, and has followed the strictest principles of integrity and trusteeship in the administration of the fund's affairs.

The company derives its revenues from two principal sources:
(1) advisory fees received, and (2) sales concessions received from the funds sold. The company acts as advisor to Wellington Fund and (through its subsidiary, The Wellington Company Ltd.) as advisor to Wellington Equity Fund. The combined assets of the two funds were in excess of \$1 billion when the stock was offered to the public in January, 1960. Wellington Company, Inc., a wholly-owned subsidiary, is the national distributor for both funds.

For its services as advisor, wellington Management Co. received a quarterly fee which is equal to 1/8 of 1% on the first \$70 million of assets administered and graduated downward to 1/16 of 1% on assets over \$120 mil-

lion. The advisor for the Equity Fund, which was initially offered in late 1958, receives a straight fee of 1/8 of 1/8 quarterly. Currently, the total assets of Wellington Fund are about \$1,065,000,000 and Wellington Equity Fund about \$45,000,000.

Wellington Management Company's second source of income is derived through the distributor company which conducts the sales promotion for both funds. Various types of sales services are offered to some 2,600 investment dealers throughout the country. For their sales efforts, the dealers receive 6% of the 8% base commission paid by the investor. The differential, or 2%. is used for wholesalers' commissions, advertising and literature of the two funds as well as other costs. Not only are the two funds sold through independent dealers all over the country, but Wellington Fund shares are also sold by First Investment Corp. of New York, under front-end contractual plans and single payment plans. The front-end contractual plan is set up for periodic payments over a 10-year period, with most of the sales charge being taken out of the earlier payments for the whole contract period. This deduction at the beginning of a plan tends to have investors keep up payments on their plan, and is not unlike in-

#### WELLINGTON MANAGEMENT COMPANY

Approximate	Price	 14
Dividend		
		4.3%
Traded		 O.T.C.

Capitalization (6/30/60)
Term Bank Loan\$300,000
Pfd. Stock, 5% Cum3,600 shs.
Class A (non-
voting)
Class B (voting)10,000 shs.

surance premiums where the cash-surrender value of a policy becomes more valuable as the years go on. Although the distributor does not get any of the sales fee on plans sold by First Investors Corp., the Management Company receives the management fee on the funds so generated. In addition, this type of plan has a stabilizing influence on earnings in that more than \$300 million is scheduled to be paid into Wellington Fund over the next 10 years as the plans already sold are completed.

It would, at this time, be appropriate to examine the two funds in question. The Wellington Fund is a balanced fund with its portfolio divided between fixed income securities and equities. The ratio between the two types of investments varies with the economic conditions and the judgment of the management. The Fund's principal investment objectives are relative safety of principal, reasonable return on investment and profits without undue risk.

Wellington Equity Fund, ini-

tially offered in late 1958, has an investment objective of long-term capital growth and future income. This fund invests primarily in common stocks, emphasizing those with outstanding long-term appreciation prospects. The growth potential of this fund, we believe, is most promising.

The combined net assets of Wellington Fund and Wellington Equity Fund have grown from \$106 million in 1949 to \$1,060 million in 1959—or an annual compounded rate of growth equal to 26% per annum. Gross income since 1954 (derived principally from management fees and commissions) increased about 150% while expenses rose a little over 100%. As a result of the widening margin (expense to gross income) in the same period, net income increased about 28%. Per share earning have risen steadily from 24¢ in 1954 to 76¢ in 1959. Six month 1960 earnings are equal to 46 per share against 43¢ last year.

With mutual funds showing a consistent rate of growth, we be-

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ding no organic disease, the doctor's gnosis was recurring states of anxiety.

prescribes Meprospan-400, the only probamate in sustained-release form.



Patient takes one Meprospan-400 capsule at breakfast. Her tension is soon relieved, and she will not need another capsule till dinner.



Im and relaxed, the patient is no ger bothered by pressures of everyday , nor will she have autonomic disturbes, drowsiness or ataxia.



Alert and attentive, the patient participates in a P.T.A. meeting, following her evening capsule of Meprospan-400. Meprospan-400 does not interfere with her normal activities or mental efficiency.



sleeps peacefully, for Meprospan-400 relieved the tensions that previously ther tossing and turning throughout night.

most widely prescribed tranquilizer ... most convenient dosage form ...

# ONE CAPSULE LASTS 12 HOURS

# Meprospan-400

400 mg. MILTOWN® SUSTAINED-RELEASE CAPSULES

Usual dosage: One capsule at breakfast lasts all day, one capsule with evening meal lasts all night. Supplied: Meprospan-400, each blue-topped susfained-release capsule contains 400 mg. Miltown. Also available: Meprospan-200, each yellow-topped susfained-release capsule contains 200 mg. Miltown.

Both potencies in bottles of 30 capsules.

Samples and literature available on request.



WALLACE LABORATORIES / Cranbury, N. J.

lieve Wellington Management Company is behind the market (at current levels) and does not discount the indicated growth of the company. The stock appears to be an attractive purchase for those interested in long-term growth and reasonable priceearnings multiples and at an attractive dividend yield.

## Laboratory for Electronics

Our fourth company is Laboratory for Electronics. This company, organized in 1946, derives approximately 80% of its revenues from its Doppler Navigation System which is used in the F-105 Interceptor. This navigation system represents an important advance and reflects not only the company's research prowess but also demonstrates outstanding capabilities in manufacturing. Over the last three vears, this system has been the principal contributor towards increasing sales from about \$7 million to \$45 million. In the foreseeable future the demand for this navigation system for the F-105 should show further increases, although the bulk of the gain has already occurred.

In addition to the Doppler system, the company is on the verge of substantially increasing sales in electronic data processing equipment. To meet the need for instantaneous random access to

very large masses of information a system has been developed which can store tremendous quantities of data. This data can be obtained and displayed in the fraction of a second. In addition LFE has developed a disc (the Bernoulli disc) for data storage erns This disc is considerably less extere pensive than the more conven with tional memory drum.

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With the data processing in wou dustry changing so rapidly, par of ticularly in the laboratory, LFI portion directing considerable efforts L in the field of ferro-magnetic presentation films, which are micro-mini-vide ature information storage de ence vices of the future. Thus, LFF field now is beginning to be an im inst portant source of storage equip con ment for data processing systems cen and, at the same time, is on the gro verge of gaining an even large I stake in the equipment of the cess future. As an independent com-Sys pany which does not produce LF the entire electronic data processing system, LFE will be in cree position to deliver its composition to the entire data-processing industry. In two to three \$1,000 years, these products could be any con major profit source.

Another area, which is already providing sales, is in the general field of air traffic control. Ab ground control approach radz system is being delivered to the the Air Force. Several foreign gove the

#### LABORATORY FOR ELECTRONICS

Approximate Price	(Capitalization (6/30/60) Long-Term DebtNone Common Stock700,208 shs.
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emments have also expressed inex terest in this low-cost system
en with an order already received
from Sweden. This equipment
in would appear to meet the needs
at of the smaller commercial airproports.

orts LFE's strong footholds in its enterpresent product areas also proline vide the company with experidesence and know-how in related free fields. For instance, microwave in instruments, which currently contribute a relatively small perline centage of sales, are an outthe growth of its other experiences.

ger In recent years, with the sucthe cesses of the Doppler Navigation
System, earnings and sales for
the LFE have shown substantial increases. Net income has increased from \$51,000 in 1958 to
p. \$1,226,000 in 1960 and income for
second in the secon

With the great gains in sales and earnings, the financial condition has shown improvement. About five years ago there was serious question as to whether the company could survive. Now, the company has completely liq-

uidated its bank indebtedness and is in an excellent position to finance internally the anticipated future growth. The present financial strength was caused principally by the improvement in earnings and partially by obtaining \$2.1 million through the sale of stock in June of 1960.

The present facilities of the company are adequate for handling volume well in excess of present needs. More important, however, is that arrangements have been made to provide for future expansion when needed.

Now, with an important earnings and sales base from existing operations, Laboratory for Electronics, which had grown entirely from within, will be in a position to acquire other companies in related fields. Such a program would be of substantial benefit, and provides an important stimulus to future appreciation which is not reflected in the price of the shares.

## **Obear-Nester Glass**

Our fifth and last company is Obear-Nester Glass Co., a growing producer of glass containers. The company is expected to rack up peak sales and earnings in the current fiscal year ending June 30, 1961. Over the past decade sales have expanded three-fold and per share profits have climbed over 350%. Last year, on an 8% rise in sales to \$20.1 million, net rose to a high of \$2.34 per share from \$2.18 in fiscal 1959.

Several factors enhance the outlook for an extension of the upswing in the current year. To begin with, the glass container industry as a whole continues to broaden its markets. In 1959, shipments amounted to 19.7 billion units, a 5% gain over 1959; this year, the total will top 23 billion. Moreover, Obear-Nester boasts an expanding stake in non-returnable glass containers, which are enjoying increasing popularity among beer and soft drink producers. Finally, the company plans to boost capacity by over 20%. In fiscal 1959. Obear-Nester's sales broke down as follows: beer bottles, 44.6%; liquor, 19%; soft drinks, 12.4%; household and industrial, 7.6%; wine, 5.9%; medicinal health, 5.1%; food, 2.9%; toiletries and cosmetics, 2.4%; and the remainder, miscellaneous.

Headquartered in East St. Louis, Ill., the company serves over 500 customers, most of which are located within a 500-mile radius of the main plant. Seven concerns account for

roughly 59% of Obear-Nester dollar volume; several of the accounts, however, are independent sales representatives when turn, serve their own custom ers.

As indicated, non-returnal glass containers are of grown importance to Obear-Nester This product line represents about 34% of fiscal 1959's production and the proportion is blieved to have been larger by year. Rising demand for succontainers from the beverage industries reflects growing accept ance by consumers attracted by the convenience of not having return bottles. At the same time brewers and others save the confining up empty bottles.

"One-way" beer bottles had made stronger inroads into the market since the industrial launched a massive promotion campaign last fall. Despite the late start, no-deposit beer bottle volume jumped 15.4% in 1959. It is the first quarter this year, the gain amounted to nearly 28 is like Today, such bottles commandabout 7% of the packaged beginning about 7% of the packaged beginning the start of the packaged beginning the star

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While sales of soft drink deposable containers also are in ing, this market at present is lesser importance to Obear-Neter. Nonetheless, in the last lesser, use of non-returnal glass bottles among "soda pomakers has grown from 18



# conomical aintenance therapy atopic dermatoses

ing-term use of topical steroids has l advantages in most eczematous 9.1 eases; but this means daily applications many weeks and even months after ble signs of the disease have appeared. The 0.25% hydrocortisone benicals afford therapeutic effectiveness fraction of the cost.2



#### CORT-DOME® (pH 4.6)

0.25% micronized hydrocortisone alcohol in the exclusive ACID MANTLE® vehicle.

# **NEO-CORT-DOME**

(pH 4.6)

0.25% micronized hydrocortisone alcohol plus 5.0 mg./Gm. of neomycin sulfate in the exclusive ACID MANTLE vehicle.

# CARBO-CORT"

(pH 4.6)

0.25% micronized hydrocortisone alcohol plus 3.0% liquor carbonis detergens in the exclusive ACID MANTLE vehicle.

#### CORT-QUIN" (pH 4.5)

0.25% micronized hydrocortisone alcohol plus 1.0% diiodohydroxyquinoline in the exclusive ACID MANTLE vehicle.

#### COR -TAR - QUIN" (pH 5.0)

0.25% micronized hydrocortisone alcohol plus 1.0% diiodohydroxyquinoline and 2.0% liquor carbonis detergens in the exclusive ACID MANTLE vehicle.



Stoughton, R. B.: Report To The Council; ioid Therapy In Skin Disorders, J.A.M.A. 1311-1315 (July 11) 1959. 2.) Goodman, Concentration of Topical Medications Dis-ed in Evaporating Vehicles with Particular trence to Hydrocortisone Alcohol, Clin. Med. 1-784 (May) 1959.

The exclusive ACID MANTLE vehicle potentiates the ingredients in DOME preparations . . . restores and maintains the normal protective acidity of the skin...and facilitates healing.

World Leader In Dermatologicals

DOME CHEMICALS INC. New York / Los Angeles

Available as CREMES in 1 oz. tubes, 4 oz. and 1 lb. jars; and as LOTIONS in 4 fl. oz. bottles.

These preparations are also available with higher hydro-

#### OBEAR-NESTER GLASS

n Stock895,500 shs.
1

000 gross to 1.5 million.

Obear-Nester's East St. Louis facility comprises 686,000 square feet. Its four furnaces command a daily capacity of about 480 tons of manufactured glass; in addition equipment includes 24 glass blowing machines and 24 annealing lehrs. A subsidiary, Lincoln Container Corp., operates a 114,-300 square foot plant in Lincoln, Ill., which is equipped with one furnace (115-ton daily capacity), five glass-blowing machines, and six annealing lehrs. In fiscal 1959, glass container production aggregated 2.7 million gross.

The company has been grow ing at an annual rate of 12% Moreover, while retaining his quality production standards and competitive price schedule Obear-Nester enjoys pre-ta profit margins of about 22.5%.

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Dividends currently are paid at a \$1.20 per share annual rate is so

Finances are strong. Current cler assets on June 30, 1960, totaled lend \$10.5 million against current la dror abilities of \$2.7 million. Cash ets items alone aggregated \$7 mil lion, and the current ratio stool at 3.8 to 1.

#### Gastric Ulcer Developing After Esophagectomy for Carcinoma

In 2 patients gastric ulcer occurred 3 years after esophagogastrectomy and esophagectomy, with esophagogastric anastomoses, for carcinoma of the gastric cardia and the middle third of the esophagus, respectively. In the first case, the lesion appeared radiologically benign; in the second the lesion appeared malignant on x-ray. At surgical es ploration both patients were found to have ulcerating metatatic lesions. Gastric ulcer ma arise from surrounding, infiltrat ing metastatic lymph nodes from ulcerating submucous subserous lymphatic spread the primary tumor.

Wildstein, G., & Baronofsky, I. D., J. Mt. Six Hosp., 27:398-403,1960.

#### Somacort

(Wallace)

Anti-inflammatory, muscle relaxint/analgesic compound. Each
ablet contains 350 mg. of carisorodol and 2 mg. of prednisoone. Indications: For acute and
able thronic arthritis. For chronic
ind acute musculoskeletal disoriers characterized by inflammation, stiffness, pain, muscle
and pasm and limitation of motion
is seen in rheumatic spondylitis,
cleroderma, fibrositis, bursitis,
le endinitis, and shoulder-arm synier irome. Dosage: One or two tabable ts four times daily. Supplied:
in bottles containing 50 tablets.

#### Purovax Vaccine (Merck Sharp & Dohme)

Poliomyelitis vaccine. Contains ypes 1, 2 and 3 poliomyelitis virus grown on monkey kidney with and treated formaldehyde. Indications: For active mmunization against paralytic poliomyelitis. Dosage: Three inections of 0.5 cc. each, given with an interval of four to six weeks between first and second njection, third injection to be given seven months or more after second injection of initial series. Supplied: In 2 cc. (4 dose) vials.

### ► Carbocaine Hydrochloride (Winthrop)

Local anesthetic, available in two strengths: Multiple dose vials containing either 1% or 2% of mepivacaine hydrochloride. Indications: For infiltration, nerve block (major and minor surgery), therapeutic block, and for caudal and peridural anesthesia. Dosage: Depends on the surgical procedure, body area, individual response, and anesthetic technique. Supplied: Either strength, in multiple dose vials of 50 cc. Also available for caudal and peridural block, Carbocaine hydrochloride, 1%, in sterile, modified Ringer's solution, in single dose vials of 30 cc.

# ►Anameba Tablets (Chicago)

Oral amebicide. Each tablet contains 125 mg. of iodochlorhydroxyquin and bacitracin methylene disalicylate equivalent to 5000 U.S.P. units of bacitracin activity. Indications: Treatment of amebic dysentery carriers infected with intestinal E. histolytica. Dosage: One tablet three times daily after meals for eight days. Supplied: In packages of 24 tablets.

# ►Alba-Dome Creme and Lotion (Dome)

Dermatologic. Creme contains 20%, lotion contains either 5% or 10% monobenzone (monobenzyl ether of hydroquinone). Indications: Severe freckling, generalized lentigo, melasma of Addison's disease or pregnancy (chloasma), hyperpigmentation due to photosensitization or various inflammatory skin conditions. Dosage: Apply with cotton swab two or three times daily. using gentle rubbing action. Excessive depigmentation is reversible on discontinuance of treatment. Supplied: Creme, in 2 ounce jars. Lotion, either strength, in 2 ounce bottles.

# ► Medrol with Orthoxine Tablets (Upjohn)

Antiasthmatic. Each tablet contains 2 mg. of methylprednisolone and 75 mg. of methoxyphenamine. Indications: Moderately severe to severe bronchial asthma and allergic rhinitis. Caution: Use with caution in patients with diabetes mellitus, osteoporosis, chronic psychotic reaction, predisposition to thrombophlebitis, hypertension, congestive heart failure, and renal insufficiency. Do not use in patients with arrested tuberculosis, peptic ulcers, acute psychoses, Cushing's syn-

drome, herpes simplex keratitis, vaccinia, and varicella. Dosage: Usual adult dosage is one table three or four times daily Total daily dose of methylprednisolone should not exceed 15 mg. Supplied: In bottles containing 30 or 100 tablets.

#### ► Phazyme Tablets (Reed & Carnrick)

Each tablet contains 100 mg. of pepsin, 25 mg. of diastase, 60 mg of activated dimethyl polysilovane, and 240 mg. of pancreatin *Indications*: For relief of flathlence. *Dosage*: One tablet with each meal and upon retiring, or as required. *Supplied*: In bottle containing 50 or 100 tablets.

# ►Lipalone Cream 0.25%

Contains 0.25% prednisolou and 0.5% hexachlorophene. Indications: Nonspecific anogenits pruritus, allergic dermatos such as contact dermatitis and atopic eczema, neurodermatitis pruritus with lichenification, at tinic dermatitis, otitis extem (acute, subacute, and chronic and dry, chafed, irritated skin Dosage: Rub into the affects area two to four times daily Supplied: In 5 gm., ½ ounce, and 1 ounce tubes, and 1 pound jam

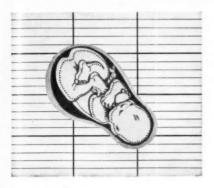
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n w in threatened premature delivery

# Dactili-OB

Brand of piperidolate hydrochloride, hesperidin complex and vitamin C

prolongs gestation / increases fetal survival rate



no intolerance / no endocrine disturbance / reduces need for bed rest

In a study of 618 pregnancies over a period of 4 years, premature births were reduced from 13.1% of 168 patients without Dactil to 4.7% of 450 patients with Dactil.\* In the treated patients birth weights were increased.

Dosage: 1 tablet q.i.d. from the beginning of pregnancy in any patient with a history of previous difficulty. For more information send for Dactil-OB brochure.

\*Stephens, L. J.: The Prevention of Premature Delivery, presented at the Pacific Coast Fertility Society, Las Vegas, Nevada, November 15, 1959.



#### Permitil Chronotabs (White)

Each tablet contains 1 mg. of fluphenazine dihydrochloride, derivative of phenothiazine, half of which is in the outer coating for immediate absorption. The other half is located in the barrier-protected inner core for sustained action. Indications: Behavioral disturbances characterized by anxiety, tension and instability: emotional stress accompanying organic disorders and complicating recovery from or acceptance of the underlying condition; chronic disorders in which anxiety and stress are contributing factors: Gastrointestinal dysfunction, neurodermatitis, asthma, premenstrual tension, arthritis, hypertension and tension headaches. Dosage: One tablet each morning. Supplied: In bottles containing 50 tablets.

#### **▶**Domolene-HC Ointment (Dome)

Dermatologic. Contains 1% micronized hydrocortisone alcohol in a bland emollient base. Indications: To prevent drying of chronic eczematous dry skin during treatment. Dosage: Spread thin layer on affected area two or three times daily. Supplied: in 1/2 ounce, 1 ounce, or 2 ounce tubes.

### **▶**Lomotil Tablets

(Searle)

Antiperistaltic. Each tablet contains 0.025 mg. of atropine sulfate and 2.5 mg. of diphenoxylate hydrochloride. Indications: For control of diarrhea associated with gastroenteritis, irritable bowel, functional hypermotility regional enteritis, malabsorption 1960. syndrome, ulcerative colitis, food poisoning, and acute infections Dosage: Adults, initially two tab lets three or four times daily Maintenance dose is individually determined. Children, according to age. Supplied: In bottles containing 100 tablets.

#### ►Akalon "5" and "10" (Strasenburgh) Capsules

Anticholinergic. Each "5" capsule contains 5 mg. of methscopolamine and 20 mg. of methyltolyl-quinazolone. Each "10" capsule contains 10 mg. of methscopolamine and 40 mg. of methyl-tolyl-quinazolone (as cation the exchange resin complexes dework sulfonated polystyrene). Indica ject. tions: Dyspepsia, peptic ulcer point hyperacidity, painful spasm, and fully gastroenteritis. Contraindica lar tions: Glaucoma, urinary blad edem der neck obstruction, and pyloric fection obstruction. Dosage: One capsule is at every 12 hours. Supplied: Either why strength, in bottles containing & extre capsules.

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### Thoracic Surgery Before the 20th Century

by Lew A. Hochberg, First Edition. Vantage Press, N.U., 1960. S15.00

A complete review of chest surgery from its inception to modern times. The many illusrations are works of art. This volume is no mere dry recitation of the subject. It is full of amusing anecdotes which hold the reader's interest. This book will give the reader many hours of pleasure.

#### ►Edema Mechanisms and Management

by J. H. Moyer and M. Fuchs. W. B. Saunders Company, Philadelphia. First Edition. 1960.

This large volume is perhaps the finest and most complete work on this very important subject. All phases of the many points involved are discussed fully by experts in their particular fields. Since inflammatory edema is observed in every infectious disorder, this reviewer is at a loss to understand just why at least one chapter on this extremely important subject was not included

## ►Surgery in the Aged

edited by Frank Glenn, M.D.; Lewis Atterbury Stimson, Professor of Surgery; S. W. Moore, M.D., Professor of Clinical Surgery; and John M. Beal, M.D., Associate Professor of Clinical Surgery, Cornell University Medical College. The Blakiston Division, McGraw-Hill Book Company, Inc., New York, 1960. \$17.50

With the increase in the number of the aged in our population, and the improvement in diagnosis and means of treatment of diseases of a surgical nature, more and more attention is being paid to surgical care of aged persons. In this monumental work, first fundamental concepts are laid down, then means of diagnosis and a technique of treatment of surgery of the various anatomical parts-all in a highly meritorious manner. The final chapter is devoted to trauma and reconstructive surgery, certainly a subject worthy of the most careful attention. It would be difficult to conceive of a subject before the profession in the United States more important than surgery of the aging, and equally difficult to conceive of a better manner of dealing with it.

2691

## ►Synopsis of Pathology

by W. A. D. Anderson, M.A., M.D., F.A.C.P., Professor of Pathology, University of Miami School of Medicine, with 414 text illustrations and 4 color plates; Fifth Edition. The C. V. Mosby Company, St. Louis. 1960. \$9.25

This 850-page synopsis carries all the material essential for keeping physicians and surgeons well posted on the knowledge of the pathology of today. Indeed, one might venture to say it would prove a satisfactory textbook for medical students.

#### ► Communicable and Infectious Diseases: Diagnosis, Prevention and Treatment

by Franklin H. Top, M.D., M.P.H., F.A.C.P., Professor and Head, Department of Hygiene and Preventive Medicine, State University of Iowa, Iowa City, and 22 Collaborators, with 122 figures and 15 color plates; 4th Edition. The C. V. Mosby Company, St. Louis. 1960. \$20.00

The declared purpose of this edition is to continue in pursuit of the objectives set forth in previous editions, with such modifications as have become necessary because of advances in knowledge in the intervals. In the field of viral diseases, parti-

cularly, important changes are necessary. Some communicable diseases occur more rarely and in milder form. The makers of this volume are 22 authoritative specialists. All chapters have been revised, some rewritten. New chapters have been added on: Acute Respiratory Infections, including Adenoviruses and the Common Cold, Enteroviruses: Coxsackie and ECH0 Virus Infections, and Staphylococcal Infections. Chapters completely rewritten by new authors are those on Chemotherapeutic and Antibiotic Agents, Manage ment of Communicable Diseases in the Hospital, and in the Home, The Bacterial Pneumonias, Influenza, Infantile Diarrhea due to Enteropathogenic Escherichia coli, Gonorrhea, the Levtospiroses and Rickettsial Diseases.

#### ►Fundamentals of Clinical Hematology

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by B. S. Leavell and O. A. Thorup, Jr. First Edition. W. B. Saunders Company, Philadelphia, 1960.

Well written and presented in every way, this volume is a masterpiece in its field. It should rapidly find excellent acceptant by the many workers and clinicians who are deeply interested in this basic study.

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#### ►Lecture Notes on Ophthalmology

by P. D. Trevor-Roper. Charles C Thomas, Springfield. 1960. \$3.50

It is a decided pleasure to review such a concise and beautifully presented work as is this small volume on diseases of the eve. Herein can be found all of the more important aspects which have to do with this subject. For those confreres who might appreciate an outstanding review on this phase of medical practice, here is a concise, handy volume which is beautifully written by an expert English colleague who is a master when it comes to teaching the profession in an interesting manner.

#### ►Ciba Foundation Symposium on Cellular Aspects of Immunity

editors for the Ciba Foundation: G. E. Wolstenholme, O.B.E., M.A., M.B., M.R.C.P., and Maeve O'Connor, B.A. With 118 illustrations. Little, Brown and Company, Boston. \$10.50

This is an exhaustive review dealing with certain aspects of a subject of the very first importance to mankind, and of the very first interest to all those having to do with the preservation of health—that of immunity.

Those of you who are familiar with the publications of the Ciba Foundation will welcome eagerly this latest contribution. Those to whom the Cellular Aspects of Immunity will be the introductory volume may here be started on what will prove to be a gratifying serial study.

# ►Dr. Schweitzer of Lambarene

by Norman Cousins, with photographs by Clara Urguhan. Harper & Brothers, New York 1960. \$3.95

This book by the editor of the Saturday Review, is a personal appreciation of Dr. Albert Schweitzer, whom many consider as one of the world's greatest living personages. Cousins flew to Lambarene, in French Equatorial Africa, to observe the great medical missionary at work.

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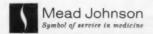


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DECEMBER 1960 Vol. 7, Number 12

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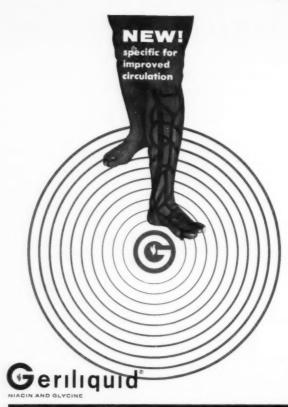
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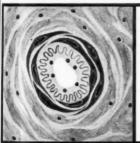
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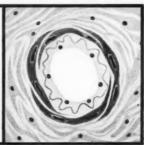
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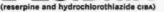
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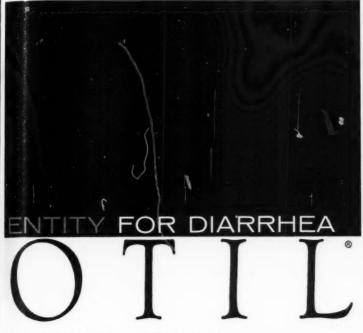
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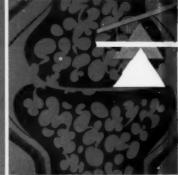
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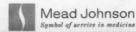
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BiB juices permit early introduction of a wide variety of flavors—valuable in taste-training the infant. Special process assures free flow through bottle nipple; ideal for spoon or cup feeding, too. BiB juices require no reconstitution, no heating, no defrosting. All mother does is open the can of BiB juice and it's ready for feeding.

References: (1) Asenjo, C. F., and Freire de Guzman, A. R.: Science 103:210 (Feb. 22) 1946. (2) Clein, W. H.: J. Pediat. 48:140-145 (Feb.) 1956.



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smooth, calm relief

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TIONAL NEW ANTISPASMODIC FORMULATION:

ntheline bromide (7.5 mg.) and phenobarbital (15 mg.)
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Probital provides rational, convenient therapy in smooth-muscle spasm: spasm of the pylorus, small and large intestines and the sphincter of Oddi, as well as gastritis, biliary dyskinesia and diverticulitis.

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# ANTIVERT STOPS VERTIGO

(virtually 9 times out of 10)

Remission in 82%; relief in 92%. So reports an investigator who recently studied ANTIVERT in dizziness. After studying 50 patients, Scal concluded that "Those with Meniere's syndrome who were given the preparation [ANTIVERT] in the early stages of this condition, reported prompt improvement in the relief of dizziness, headaches and tinnitus."

ANTIVERT combines meclizine (12.5 mg.) with nicotinic acid (50 mg.). Prescribe one ANTIVERT tablet before each meal for relief of Meniere's syndrome, arteriosclerotic vertigo, labyrinthitis, and vertigo of nonspecific origin.

Supplied: In bottles of 100 blue-and-white scored tablets. Prescription only. Reference: 1. Scal, J. C.: Eye Ear Nose & Throat Month. 38:738 (Sept.) 1959.

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YN low potent is benzthiazide?

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AClex produces diuresis, weight loss, nd symptomatic improvement in dema associated with conditions such congestive heart failure, cirrhosis the liver, chronic renal diseases including nephrosis), premenstrual nsion, toxemia of pregnancy, and besity. Edema of local origin and croid edema may also benefit. To what extent is NaClex useful in hypertension?

NaClex has definite antihypertensive properties, and may be used alone in mild hypertension. In severer cases it may be used with other antihypertensive drugs, potentiating them and permitting their use at lower dosage. In hypertension with associated water retention, NaClex is of twofold value. It may be prescribed for congestive heart failure as an ancillary measure to digitalis. NaClex does not lower the blood pressure of patients who are normotensive.

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Supply: NaClex is available in scored, yellow 50 mg. tablets.

References: 1. Ford, R. V., Cur. Therap. Res., 2:51, 1960. 2. Pitts, R. F., Am. J. Med., 24:745, 1958.

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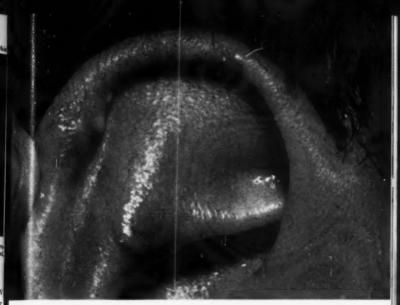
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The diabetic. Incidence of infections of the urinary tract in diabetes ranges from 12 to 20 per cent as compared to about 4.5 per cent for the rest of the population. Source: Peters, B. J.: J. Michigan M. Soc. 57:1419, 1958.

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"In the presence of urinary infection the determination [of pH] is of the utmost utility. Often therapy is guided as much by the reaction of the urine as by the more detailed bacteriologic studies." I

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(1) Williamson, P.: Practical Use of the Office Laboratory and X-Ray, Including the Electrocardiograph, St. Louis, C. V. Mooby Company, 1957, p. 41, (2) Free, A. H., and Fonner, D. E.: Studies With a Combination Test for Detection of Glucose and Protein, Abstract of 13rd Meeting, American Chemical Society, San Francisco, April 13-18, 1958, pp. 14c-15c.

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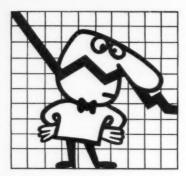
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Welsh. A. L.: Report, Conference On The Management of Chronic Dermatoses, University of Cincinnati College of Medicine, Cincinati, Ohio, November 4-5, 1959.

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narcotics

ULO is free from the limitations and undesirable side effects of narcotics... no constipation, no nausea, no gastric irritation, no appetite suppression, no tolerance development, no respiratory depression, no drowsiness.

Indications: Upper respiratory infections • Common cold • Influenza • Pneumonia Bronchitis • Tracheitis • Laryngitis • Croup • Pertussis • Pleurisy

There are no known contraindications. Side effects occur only occasionally and are mild.

#### Dosage

Mults: One teaspoonful (25 mg.) 3 or 4 times daily as required.

Children: 6 to 12 years of age, ½ to one teaspoonful (12.5 to 25 mg.) 3 or 4 times daily as required.

2 to 6 years of age, ½ teaspoonful (12.5 mg.) 3 or 4 times daily as required.

#### Availability

ULO Syrup, 25 mg. per 5 cc. (teaspoonful), in bottles of 12 fluid ounces.



Northridge, California



In rheumatoid arthritis with diabetes mellitus. A 54-year-old diabetic with a four-year history of arthritis was started on Decadron, 0.75 mg./day, to control severe symptoms. After a year of therapy with 0.5 to 1.5 mg. daily doses of Decadron, she has had no side effects and diabetes has not been exacerbated. She is in clinical remission.\*

New convenient b.i.d. afternate design schedule: the degree and extent of relief provided by DECADRON allows for b.i.d. maintenance design in many patients with so-called "chronic" conditions. Scote manifestations should first be brought under control with a t.i.d. or q.i.d. schedule.

Supplied: Ro 0.75 mg, and 0.5 mg, socred, pertagon-chaped tablets in bottles of 100. Also available as injection DECADNON Phosphain. Additional information on DECADNON is available to physicians in request. DECADNON is a trainmark of Merck & Co., inc.

"Frem a clinical investigator's report to Marck Sharp & Delme.



TREATS MORE PATIENTS MORE EFFECTIVELY





